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**SECOND BIBLIOGRAPHY AND CATALOGUE
OF THE
FOSSIL VERTEBRATA OF NORTH AMERICA**

**BY
OLIVER PERRY HAY**

Vol. I

**PUBLISHED BY CARNEGIE INSTITUTION OF WASHINGTON
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ERRATA

On page 35, under Abel, O. 1922 D, the second word should read Schnauzenverletzungen.

On page 190, under Gilmore, C. W. 1909 B, the pages of the Proc. U. S. Nat. Mus. should read 35-42.

On page 191, under Gilmore, C. W. 1916 D, the plates should read lxxii-lxxviii.

On page 195, under Gilmore, C. W. 1927 D, the volume of the Smithsonian. Misc. Coll. should be LXXX, instead of LX.

On page 323 under Matthew and Granger 1925 A, instead of Amer. Mus. Novit., No. 186, read No. 189.

On page 342, under Mook, C. C. 1916 A, the volume cited should be xxvii, instead of xvii.

P R E F A C E

In 1902 the U. S. Geological Survey published for the writer a volume entitled "Bibliography and Catalogue of the Fossil Vertebrata of North America." Since that time, through research and publication, the knowledge of the structure and relationships of fossil vertebrates, the number of new genera and species, and their geological and geographical distribution have been greatly increased. A recognition of these facts has led to the production of this "Second Bibliography and Catalogue of the Fossil Vertebrata of North America."

This work follows the same plan in general as that adopted in the volume of 1902. There is first presented a list of the scientific publications from which papers have been selected for analysis and record and for citation under the appropriate zoological divisions of the Catalogue. As in the earlier volume, author's papers are listed under the year of publication followed by a letter of the alphabet, as Gill, T. 1884 A, B, etc. In case an author has one or more papers in the volume of 1902 and one or more in the present volume, any later paper will take the next letter of the proper year, as Gill, T. 1884 E. This explanation will account for some apparent irregularities. It must be noted that only rarely has the title of any paper found in the book of 1902 been republished in the present work; nor have, with few exceptions, citations from those papers been repeated.

In the Catalogue, in case the name of a species, genus, etc., is new, the name of its author and place of publication are given first and the author's name is italicised. If the species or genus is mentioned in the volume of 1902 a reference to that volume is given either first or it follows the name of the author of the zoological title.

As regards the systematic names of families, genera and species the writer has, as strictly as his knowledge has permitted, followed "The International Rules of Zoological Nomenclature." For the higher groups these rules do not prescribe. For the superfamilies the ending *oidæ*, as employed by Dr. Leonhard Stejneger and Mr. Gerrit S. Miller, has been adopted. For the suborders the ending *formes* has sometimes been used and for the orders occasionally the ending *morphi*. These are affixed to the root of the name of the typical genus of the family.

The Catalogue of the present volume embraces the Plagiostomi, the ichthyodorulites, the Osteichthyes and the Amphibia. The succeeding part of the work will deal with the Ichnites, the Reptilia, the Aves and

the Mammalia and will terminate with an index of the systematic names used in the Catalogues of both volumes.

Besides the territory covered by the volume of 1902 the writer includes Greenland, Mexico, and Central America.

The author hopes that the labor expended on the volumes of this work will be of some service to those who are interested in vertebrate paleontology. No doubt errors of all kinds will be found in the work, but these seem to be unavoidable. It is hoped that all the described species have been recorded, but possibly a few have been overlooked. The "Zoological Record" for 1927 and that for 1928 have not been received, and in consequence valuable papers may have been missed.

The author, in conclusion, acknowledges his indebtedness to the authorities of the U. S. National Museum for access to its libraries, its laboratories and collections and for kindly aid in accomplishment of the scientific work he has tried to do. He is under still greater obligations to the officers of the Carnegie Institution of Washington for the support and encouragement they have given him during the years which have passed.

OLIVER P. HAY.

Springfield, Missouri

LIST OF ABBREVIATIONS

WITH TITLES OF BOOKS AND JOURNALS CITED

- Aarbok Bergens Mus.*—Bergens Museum Aarbok. Naturvidenskabelig Raecke. Bergen.
- A. O. U.*—Check-list of North American Birds. Prepared by a Committee of the American Ornithologists' Union. 3d edition (revised).
- Abh. Akad. Wiss. Berlin.*—Abhandlungen der königlichen preussischen Akademie der Wissenschaften zu Berlin. Physikalisch-mathematische Classe. Berlin.
- Abh. bayer. Akad.*—Abhandlungen der mathematisch-physikalischen Classe der königlichen bayerischen Akademie der Wissenschaften. München.
- Abh. Ber. Mus. Natur-Heimatsk.*—Abhandlungen und Berichte des Museums für Natur- und Heimatskunde zu Magdeburg. Magdeburg.
- Abh. böhmisch. Ges.*—Abhandlungen der mathematisch-naturwissenschaftlichen Classe der k. böhmischen Gesellschaft. Prag.
- Abh. geol. Karte Elsass.*—Abhandlungen zur geologischen Spezialkarte von Elsass-Lothringen. Strassburg.
- Abh. geol. Landesanst. Darmstadt.*—Abhandlungen der grossherzoglich-hessischen geologischen Landesanstalt zu Darmstadt. Cited also as *Abh. hess. geol. Landesanst. Darmstadt.*
- Abh. geol. Reichsanst. Wien.*—Abhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Wien.
- Abh. Ges. Götting.*—Abhandlungen der königlichen Gesellschaft der Wissenschaften zu Göttingen. Mathematisch-physikalische Klasse. Berlin.
- Abh. Mus. Dresden.*—Abhandlungen und Berichte des königlichen zoologischen und anthropologisch-ethnographischen Museums zu Dresden. Dresden.
- Abh. naturf. Ges. Halle.*—Abhandlungen der naturforschenden Gesellschaft. Halle.
- Abh. naturh. Ges. Nurnberg.*—Abhandlungen der naturhistorischen Gesellschaft zu Nürnberg.
- Abh. naturw. Ges. Isis.*—Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft "Isis" in Dresden.
- Abh. preuss. geol. Landesanst.*—Abhandlungen der königlich-preussischen geologischen Landesanstalt. Berlin.
- Abh. schweiz. pal. Ges.*—Abhandlungen der schweizerischen palaeontologischen geologischen Gesellschaft. Also called *Mémoires de la Société paléontologique suisse*. Basel und Genf.
- Abh. Senckenb. naturf. Ges.*—Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfurt a. M.
- Abh. zool.-bot. Ges. Wien.*—Abhandlungen der k. k. zoologischen-botanischen Gesellschaft. Wien.
- Act. Acad. Cien. Córdoba.*—Actas de la Academia nacional de Ciencias en Córdoba. Buenos Aires.
- Acta Acad. Leop.-Carol.*—Nova Acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ naturæ curiosorum. Called also: *Verhandlungen der k. Leop.-Carol. deutschen Akademie der Naturforscher*. Halle.
- Acta Acad. Sci. Petropol.*—Acta Academiæ Scientiarum Imperialis Petropolitanae. St. Petersburg.
- Acta Soc. Faun. Fenn.*—Acta Societatis pro Fauna et Flora Fennica. Helsingfors.

- Acta Soc. Lund.*—Acta regie Societatis physiographicæ Lundensis. See *Acta Univ. Lund.*
- Acta Soc. Sci. Fenn.*—Acta Societatis Scientiarum Fennicæ. Helsingfors.
- Acta Soc. Sci. Upsal.*—Nova Acta regie Societatis Scientiarum Upsaliensis. Upsala.
- Acta Univ. Lund.*—Acta Universitatis Lundensis. Called also: *Lunds Universitets Arsskrift*; and includes: *Acta regie Societatis physiographicæ Lundensis*; also called: *Kongl. fysiografiska Sällskapets i Lund Handlingar*. Lund, Sweden.
- Acta Zool.*—Acta Zoologica. Internationell Tidskrift för Zoologi. Stockholm.
- Actes Mus. hist. nat. Rouen.*—Actes du Muséum d'histoire naturelle de Rouen. Rouen.
- Actes Soc. helvét. Sci. nat.*—Actes de la Société helvétique des Sciences naturelles. Aarau. Same as *Verh. schweiz. naturf. Ges.*
- Actes Soc. Linn. Bordeaux.*—Actes de la Société Linnéenne de Bordeaux.
- Aeronaut. Jour. London.*—Aeronautical Journal. London.
- Afh. Bergens Mus.*—Afhandlingar og Aarsberetning, udgivne af Bergens Museum. Bergen.
- Allg. Naturf.-Zeit.*—Allgemeine Naturforscher-Zeitung. Berlin.
- Amer. Anthropol.*—The American Anthropologist. Lancaster.
- Amer. Geologist.*—The American Geologist; a monthly journal of geology and allied sciences. Minneapolis.
- Amer. Invent.*—American Inventor. New York.
- Amer. Jour. Anat.*—The American Journal of Anatomy. Baltimore.
- Amer. Jour. Phys. Anthropol.*—American Journal of Physical Anthropology. Washington.
- Amer. Jour. Physiol.*—The American Journal of Physiology. Boston.
- Amer. Jour. Sci.*—The American Journal of Science. New Haven.
- Amer. Mercury.*—The American Mercury. New York.
- Amer. Micr. Jour.*—The American Monthly Microscopical Journal. Washington.
- Amer. Midl. Nat.*—The American Midland Naturalist. Bimonthly. Notre Dame University. South Bend.
- Amer. Month. Mag. Crit. Rev.*—The American Monthly Magazine and Critical Review. 4 volumes 1817–1818. New York.
- Amer. Mus. Guide leaflet.*—American Museum of Natural History, Guide leaflet series. New York.
- Amer. Mus. Jour.*—The American Museum Journal. New York.
- Amer. Mus. Novit.*—American Museum Novitates. New York.
- Amer. Naturalist.*—The American Naturalist. Philadelphia, Boston, Lancaster.
- An. Mus. La Plata.*—Anales del Museo de La Plata. Buenos Aires.
- An. Mus. Nac. Buenos Aires.*—Anales del Museo Nacional de Historia Natural de Buenos Aires. Buenos Aires.
- An. Mus. Nac. México.*—Anales del Museo Nacional de México. Segunda época. México.
- An. Mus. Nac. Montevideo.*—Anales del Museo Nacional de Montevideo. Montevideo.
- An. Soc. cien. Argent.*—Anales de la Sociedad científica Argentina. Buenos Aires.
- Anat. Anz.*—Anatomischer Anzeiger. Centralblatt für die gesammte wissenschaftliche Anatomie. Amtliches Organ der anatomischen Gesellschaft. Jena.
- Anat. Anz. Ergänzungsh.*—Anatomischer Anzeiger. Ergänzungsheft, containing *Verhandlungen der anatomischen Gesellschaft*. Jena.
- Anat. Hefte, Arb.*—Anatomische Hefte. Erste Abteilung. Beiträge und Referate zur Anatomie und Entwicklungsgeschichte. Arbeiten aus anatomischen Instituten. Wiesbaden.

- Anat. Hefte, Ergebn.*—Anatomische Hefte. Zweite Abteilung. Ergebnisse der Anatomie und Entwicklungsgeschichte. Wiesbaden.
- Anat. Record.*—Anatomical Record. Wistar Institute of Anatomy and Biology. Philadelphia.
- Anat. Stud.*—Anatomische Studien. Herausgegeben von Dr. C. Hasse. Leipzig.
- Ann. Brit. Geol.*—Annals of British Geology. London.
- Ann. Carnegie Mus.*—Annals of the Carnegie Museum. Pittsburgh.
- Ann. Durban Mus.*—Annals of Durban Museum. Durban.
- Ann. Hébert.*—Annales Hébert. Annales de stratigraphie et de paléontologie du laboratoire de géologie de la faculté des Sciences de Paris. Paris.
- Ann. Iowa.*—Annals of Iowa. Des Moines.
- Ann. Lyc. Nat. Hist. N. Y.*—Annals of the Lyceum of Natural History of New York. New York.
- Ann. Mag. Nat. Hist.*—Annals and Magazine of Natural History, including Zoology, Botany, and Geology. London.
- Ann. Med. Hist.*—Annals of Medical History. New York.
- Ann. Mus. Congo belge, Géol.*—Annales du Musée du Congo belge. Bruxelles.
- Ann. Mus. hist. nat. Belgique.*—Annales du Musée royal d'histoire naturelle de Belgique. Bruxelles.
- Ann. Mus. hist. nat. Marseille.*—Annales du Musée d'histoire naturelle de Marseille. Zoologie. Marseille.
- Ann. Mus. hist. nat. Paris.*—Annales du Muséum d'histoire naturelle. Paris.
- Ann. Mus. Hungar.*—Annales Musei nationalis Hungarici. Budapest.
- Ann. N. Y. Acad. Sci.*—Annals of the New York Academy of Sciences. New York.
- Ann. Nat. Hist.*—Annals of Natural History, or Magazine of Zoology, Botany and Geology. London.
- Ann. Natal Mus.*—Annals of the Natal Government Museum. London.
- Ann. naturh. Hofmus. Wien.*—Annalen des k. k. naturhistorischen Hofmuseums. Wien.
- Ann. Paléont. Paris.*—Annales de Paléontologie. Paris.
- Ann. Philos. Lond.*—Annals of Philosophy. London.
- Ann. Queensl. Mus.*—Annals of Queensland Museum. Brisbane.
- Ann. Rec. Sci. Indust.*—Annual Record of Science and Industry. Edited by Spencer F. Baird. New York.
- Ann. Sci. géol. Paris.*—Annales des Sciences géologiques. Paris.
- Ann. Sci. nat.*—Annales des Sciences naturelles. Zoologie et Paléontologie. Paris.
- Ann. Sci. nat. Bologna.*—Nuovi Annali delle Scienze naturali. Bologna.
- Ann. Soc. Agric. Lyon.*—Annales de la Société d'Agriculture, Histoire naturelle et Arts utiles de Lyon. Lyons and Paris.
- Ann. Soc. Agric. Puy.*—Annales de la Société d'Agriculture, Sciences, etc., du Puy. Le Puy.
- Ann. Soc. Belge Micr.*—Annales de la Société Belge de Microscopie. Bruxelles.
- Ann. Soc. géol. Belgique.*—Annales de la Société géologique de Belgique. (Consist of Bulletin and Mémoires.) Liege.
- Ann. Soc. géol. Nord.*—Annales de la Société géologique du Nord. Lille.
- Ann. Soc. Linn. Lyon.*—Annales de la Société Linnéenne de Lyon. Lyon.
- Ann. Soc. Méd. Gand.*—Annales et Bulletin de la Société de Médecine de Gand. Gand.
- Ann. Soc. scient. Bruxelles.*—Annales de la Société scientifique de Bruxelles. Bruxelles.
- Ann. Soc. zool. Belgique.*—Annales de la Société royale zoologique et malacologique de Belgique. Mémoires et Bulletins. Bruxelles.
- Ann. S. African Mus.*—Annals of South African Museum. Cape Town.
- Ann. Transvaal Mus.*—Annals of Transvaal Museum. Pretoria.

- Ann Univ. Lyon.*—Annales de l'Université de Lyon. Sciences, Médecine. Lyon.
- Ann. Wien. Mus. Zool. Abh.*—Zoologische Abhandlungen aus den Annalen des Wiener Museums der Naturgeschichte. Wien.
- Annuaire Géol. Min. Russie.*—Annuaire géologique et minéralogique de la Russie. Nova Alexandria.
- Annuaire Mus. St. Pétersb.*—Annuaire du Musée zoologique de l'Académie impériale de St. Pétersbourg.
- Annuaire Mus. Univ. Napoli.*—Annuario del Museo zoologico della R. Università di Napoli. Napoli.
- Anthrop. Pap. Amer. Mus. Nat. Hist.*—Anthropological Papers of the American Museum of Natural History. New York.
- Ans. Akad. Wiss. Wien.*—Anzeiger der k. Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Classe. Wien.
- Aquarium Bull.*—The Aquarium Bulletin. Brooklyn, N. Y.
- Aquila.*—Aquila. Budapest.
- Arb. anat. Inst. Univ. Sendai.*—Arbeiten aus dem anatomischen Institut der kaiserlich-japanischen Universität zu Sendai. Tokyo.
- Arb. Inst. Würzburg.*—Arbeiten aus dem zoologischen-zootomischen Institut in Würzburg. Wiesbaden.
- Arb. Naturf.-Ver. Riga.*—Arbeiten des Naturforscher-Vereins zu Riga. Riga.
- Arb. zool. Inst. Wien.*—Arbeiten aus dem zoologischen Institut der Universität Wien und der zoologischen Station in Triest. Wien.
- Arch. Anat. Entwickl.*—Archiv für Anatomie und Entwicklungsgeschichte. Anatomische Abteilung des Archives für Anatomie und Physiologie. Leipzig.
- Arch. Anat. micr. Paris.*—Archives d'Anatomie microscopique. Paris.
- Arch. Anat. Physiol. Leipzig.*—See Arch. Anat. Entwickl.
- Arch. Anat. Physiol. Med.*—Archiv für Anatomie, Physiologie und wissenschaftliche Medicin. Berlin.
- Arch. Anthropol.*—Archiv für Anthropologie. Braunschweig.
- Arch. Anthropol. Etnol.*—Archivio per l'antropologia e la etnologia. Firenze.
- Arch. Biol.*—Archives de Biologie. Gand, Paris, etc.
- Arch. Biontol.*—Archiv für Biontologie (Gesellschaft naturforschender Freunde). Berlin.
- Arch. Comm. Sci. Mex.*—Archives de la Commission scientifique du Mexique. Paris.
- Arch. Dorpat. Ges.*—Archiv für die Naturkunde Liv-, Esth- und Kurlands. Herausgegeben von der Dorpater Naturforscher-Gesellschaft. Dorpat.
- Arch. Entwickl.-mech. Organ.*—Archiv für Entwicklungsmechanik der Organismen. Leipzig.
- Arch. Hydrobiol.*—Archiv für Hydrobiologie. Organ der internationalen Vereinigung für theoretische und angewandte Limnologie. Stuttgart.
- Arch. ital. Anat. Embr.*—Archivio italiano di anatomia e di embriologia. Firenze.
- Arch. ital. Biol.*—Archives italiennes de Biologie. Turin, Pise.
- Arch. mikr. Anat. Bonn.*—Archiv für mikroskopische Anatomie. Bonn.
- Arch. Min. Geogn. Bergb.*—Archiv für Mineralogie, Geognosie, Bergbau, etc. Berlin.
- Arch. Mus. hist. nat. Lyon.*—Archives du Muséum d'histoire naturelle. Lyon.
- Arch. Mus. hist. nat. Paris.*—Nouvelles Archives du Muséum d'histoire naturelle. Paris.
- Arch. Mus. Rio Jan.*—Archives do Museu Nacional do Rio de Janeiro. Brazil.
- Arch. Mus. Teyler.*—Archives du Musée Teyler. Haarlem.
- Arch. Naturges.*—Archiv für Naturgeschichte. Berlin.
- Arch. Ohrenheilk.*—Archiv für Ohrenheilkunde. Leipzig.
- Arch. Rassenbiol.*—Archiv für Rassen- und Gesellschaftsbiologie, etc. Leipzig.

- Arch. Sci. biol.*—Archives des Sciences biologiques. Publiées par l'Institut Impérial de Médecine expérimentale à St. Pétersbourg.
- Arch. Sci. Méd.*—Archives des Sciences Médicales. Organ de l'Institut d'Anatomie et de Chirurgie de Bucarest. Paris.
- Arch. Sci. Phys. Nat.*—Archives des Sciences physiques et naturelles. Genève.
- Arch. wiss. u. prakt. Tierheilk.*—Archiv für wissenschaftliche und praktische Tierheilkunde. Berlin.
- Arch. Zool. expér.*—Archives de Zoologie expérimentale et générale. Paris.
- Arkiv Zool.*—Arkiv för Zoologi. Utgifvet af k. Svenska Vetenskapsakademien. Upsala and Stockholm.
- Arssk. Vetensk.-Soc. Upsala.*—Arsskrift, utgiven af kongl. Vetenskaps-Societeten. Upsala.
- Asia.*—New York.
- Asiat. Res.*—Asiatic Researches; or Transactions of the Society instituted in Bengal, etc. Calcutta.
- Atlant. Jour.*—Atlantic Journal and Friend of Knowledge. Philadelphia.
- Atti Accad. Lincei.*—Atti della R. Accademia dei Lincei. Della Classe di Scienze fisiche, matematiche e naturali. Roma. Consists of Memorie and Rendiconti.
- Atti Accad. Pont. Lincei.*—Atti dell' Accademia Pontificia dei nuovi Lincei. Roma.
- Atti Accad. Sci. Napoli.*—Atti dell' Accademia delle Scienze fisiche e matematiche. Napoli.
- Atti Accad. Sci. Palermo.*—Atti della Reale Accademia di Scienze, Lettere e Belle Arti di Palermo. Palermo.
- Atti Accad. Sci. Torino.*—Atti della R. Accademia delle Scienze di Torino. Torino.
- Atti Soc. Ital. Sci. Nat.*—Atti della Società Italiana di Scienze Naturali e del Museo Civili di storia naturale. Milano.
- Atti Soc. Nat. Modena.*—Atti della Società dei Naturalisti e matematici di Modena. Modena.
- Atti Soc. Toscana Sci. Nat.*—Atti della Società Toscana di Scienza Naturali residente in Pisa. Pisa.
- Augustana Lib. Publ.*—Augustana Library Publications. Rock Island, Ill.
- Auk.*—The Auk: a quarterly Journal of Ornithology. New York.
- Aus der Heimat.*—Aus der Heimat: Naturwissenschaftliche Monatsschrift. Stuttgart.
- Aus der Natur.*—Aus der Natur: Zeitschrift für alle Naturfreunde. Leipzig.
- Baylor Bull.*—Baylor Bulletin. Baylor University. Waco, Texas.
- Beitr. Pal. Geol. Österr.-Ung.*—Beiträge zur Paläontologie und Geologie Österreich-Ungarns und des Orients. Wien.
- Ber. Mus. Franc.-Carl. Linz.*—Bericht über das Museum Francisco-Carolinum in Linz. Linz, Austria.
- Ber. naturf. Ges. Bamberg.*—Bericht der naturforschenden Gesellschaft in Bamberg. Bamberg.
- Ber. naturf. Ges. Freiburg.*—Berichte der naturforschenden Gesellschaft zu Freiburg i. B. Freiburg.
- Ber. naturf. Ges. Halle.*—Bericht über die Sitzungen der naturforschenden Gesellschaft zu Halle. Halle.
- Ber. naturhist. Ver. Augsburg.*—Bericht des naturhistorischen Vereins in Augsburg. Augsburg.
- Ber. oberrhein. geol. Ver.*—Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
- Ber. Senckenb. naturf. Ges.*—Bericht über die Senckenbergische naturforschende Gesellschaft in Frankfurt-am-Main.
- Ber. St. Gall. naturw. Ges.*—Bericht der St. Gallischen naturwissenschaftlichen Gesellschaft. St. Gallen.

- Bibl. anat.*—Bibliographie anatomique. Paris, Nancy.
- Bibl. géol. Russie.*—Bibliothèque géologique de la Russie. St. Pétersbourg.
- Bibl. Serv. Wistar Inst.*—Bibliographie Service of the Wistar Institute of Anatomy and Biology. Abstracts on cards. Philadelphia.
- Bibl. Zool.*—Bibliographia Zoologica. Leipzig.
- Bihang Svenska Vet. Akad. Handl.*—Bihang till kongl. Svenska Vetenskaps Akademiens Handlingar. Stockholm.
- Bijdr. Anat. Haarlem.*—Petrus Camper. Nederlandse Bijdragen tot de Anatomie. Haarlem.
- Bijdr. Dierk. Amsterdam.*—Bijdragen tot de Dierkunde, etc. Amsterdam.
- Biol. Bull.*—Biological Bulletin, published by the Marine Biological Laboratory, Woods Hole, Mass.
- Biol. Centr. Amer.*—Biologia Centrali-Americana. London.
- Biol. Centralbl.*—Biologisches Centralblatt. Leipzig.
- Biol. Foren. Forh.*—Biologiska Föreningens Förhandlingar. Verhandlungen des biologischen Vereins in Stockholm.
- Biol. Gen.*—Biologia Generalis. International journal of general biology. Vienna, Bratislava, Baltimore.
- Biol. Lect. Woods Hole.*—Biological lectures from the Marine Biological Laboratory. Woods Hole, Massachusetts. Boston.
- Biol. Zeitschr. Moscow.*—Biologische Zeitschrift. Moscow.
- Biol. Zentralbl.*—See Biol. Centralbl.
- Bol. Acad. Cien. Córdoba.*—Boletín de la Academia nacional de Ciencias en Córdoba (República Argentina). Buenos Aires.
- Bol. Com. geol. Ital.*—Bollettino del R. Comitato geologico d'Italia. Roma.
- Bol. Direc. Estud. Biolog.*—Boletín de la Dirección de Estudios Biológicos. México.
- Bol. Inst. Geol. Méx.*—Boletín del Instituto Geológico de México. City of Mexico.
- Bol. Mus. nat. México.*—Boletín del Museo nacional de México. City of Mexico.
- Bol. Soc. españ. hist. nat.*—Boletín de la R. Sociedad española de historia natural. Madrid.
- Bol. Soc. Geogr. Estad. Rep. mex.*—Boletín de la Sociedad Geografía y Estadística de la República mexicana. City of Mexico.
- Boll. Mus. Zool. Anat. Torino.*—Bollettino dei Musei di Zoologia e di Anatomia comparata della R. Università. Torino.
- Boll. Soc. geol. Ital.*—Bollettino della Società geologica Italiana. Roma.
- Boll. Soc. Napoli.*—Bollettino della Società di Naturalisti. Napoli.
- Boll. Soc. zool. Ital.*—Bollettino della Società zoologica Italiana. Roma.
- Brit. Dental Jour.*—British Dental Journal. The journal of the British Dental Association. London.
- Brit. Jour. Dental Sci.*—British Journal of Dental Science. London.
- Brit. Med. Jour.*—British Medical Journal; the journal of the British Medical Association. London.
- Brown's Klass. Ordn.*—Bronn's Klassen und Ordnungen des Thierreichs. Leipzig.
- Bull. Acad. Sci. Belgique.*—Bulletins de l'Académie royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Bruxelles.
- Bull. Acad. Sci. Cracovie.*—Bulletin international de l'Académie des Sciences de Cracovie. Comptes-rendus des séances; also designated as Anzeiger der Akademie der Wissenschaften in Krakau. Cracovie.
- Bull. Acad. Sci. Russ.*—Bulletin de l'Académie des Sciences de Russie. Leningrad.
- Bull. Acad. Sci. St. Pétersb.*—Izvestiya imperatorskoi akademii nauk (Bulletin de l'Académie impériale des Sciences de St. Pétersbourg).
- Bull. Amer. Mus. Nat. Hist.*—Bulletin of American Museum of Natural History. New York.

- Bull. Amer. Pal.*—Bulletins of American Paleontology, Cornell University. Ithaca.
- Bull. Assoc. Sci. France.*—Bulletin de l'Association Scientifique de France.
- Bull. Brit. Ornith. Club.*—Bulletin of British Ornithologists' Club. London.
- Bull. Buffalo Soc. Nat. Sci.*—Bulletin of Buffalo Society of Natural Sciences. Buffalo.
- Bull. Calif. Acad. Sci.*—Bulletin of California Academy of Sciences. San Francisco.
- Bull. Chicago Acad. Sci.*—Bulletin of Chicago Academy of Sciences. Chicago.
- Bull. Com. géol. St. Pétersb.*—Bulletin du Comité géologique de St. Pétersbourg. Petrograd.
- Bull. Conn. Geol. Nat. Hist. Surv.*—Bulletin of Geological and Natural History Survey of Connecticut. Hartford.
- Bull. Cornell Univ. Sci.*—Bulletin of Cornell University. (Science.) Ithaca.
- Bull. Dept. Geol. Univ. Calif.*—University of California publications. Bulletin of Department of Geology. Berkeley.
- Bull. Essex Inst.*—Bulletin of Essex Institute. Salem, Mass.
- Bull. Géol. Caen.*—Bulletin du Laboratoire de Géologie de la Faculté des Sciences de Caen. Caen.
- Bull. Geol. Instn. Upsala.*—Bulletin of Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Amer.*—Bulletin of Geological Society of America. New York.
- Bull. Geol. Surv. Alabama.*—Geological Survey of Alabama. Bulletins. Montgomery.
- Bull. Geol. Surv. Georgia.*—Geological Survey of Georgia. Bulletins. Atlanta.
- Bull. Geol. Surv. Minnesota.*—Bulletins. Geological and Natural History Survey of Minnesota. Minneapolis.
- Bull. Geol. Surv. Missouri.*—Geological Survey of Missouri. Bulletins. Jefferson City.
- Bull. Geol. Surv. New Jersey.*—Geological Survey of New Jersey. Bulletins. Trenton.
- Bull. Geol. Surv. Ohio.*—Geological Survey of Ohio. Bulletins. Columbus.
- Bull. Geol. Surv. Victoria.*—Victoria, Department of Mines. Bulletins of the Geological Survey of Victoria. Melbourne.
- Bull. Ill. Mus. Nat. Hist.*—Bulletin of Illinois State Museum of Natural History. Springfield.
- Bull. internat. Acad. Sci. Cracovie.*—Bulletin international de l'Académie des Sciences de Cracovie. Classe des Sciences mathématiques et naturelles. Same as Anzeiger der Akademie der Wissenschaften in Krakau. Cracovie.
- Bull. internat. Acad. Sci. Prague.*—Bulletin international de l'Académie des Sciences. Classe des Sciences mathématiques, naturelles, etc. Prague.
- Bull. Lab. Nat. Hist. Iowa.*—Bulletins from Laboratories of Natural History of State University of Iowa. Iowa City.
- Bull. Liverpool Mus.*—Bulletin of Liverpool Museums. Liverpool.
- Bull. Mém. Soc. Anthropol.*—Bulletins et Mémoires de la Société d'Anthropologie de Paris. Paris.
- Bull. Min. Acad. Sci.*—Bulletin of Minnesota Academy of Natural Sciences. Minneapolis.
- Bull. Mus. Comp. Zool.*—Bulletin of Museum of Comparative Zoology at Harvard College. Cambridge.
- Bull. Mus. hist. nat. Paris.*—Bulletin du Muséum d'histoire naturelle. Paris.
- Bull. Mus. Roy. hist. nat. Belgique.*—Bulletin du Musée d'histoire naturelle de Belgique. Bruxelles.
- Bull. N. Y. State Mus.*—Bulletin of New York State Museum of Natural History. Albany.
- Bull. N. Y. Zool. Soc.*—Bulletin of New York Zoological Society. New York.

- Bull. Nat. Hist. Soc. N. Brunsw.*—Bulletin of Natural History Society of New Brunswick. St. John.
- Bull. Neb. State Mus.*—Bulletin of Nebraska State Museum. Lincoln.
- Bull. Peabody Mus. Nat. Hist.*—Bulletin of Peabody Museum of Natural History. New Haven.
- Bull. Phillips Acad.*—Bulletin of Department of Archæology of Phillips Academy. Andover.
- Bull. Philos. Soc. Wash.*—Bulletin of Philosophical Society of Washington. Washington.
- Bull. Proc. Nat. Instn. Prom. Sci.*—Bulletin of Proceedings of the National Institution for Promotion of Science. Washington.
- Bull. S. Carol. Geol. Surv.*—Bulletin of South Carolina Geological Survey. Columbia.
- Bull. S. Dakota Geol. Surv.*—South Dakota Geological Survey. Bulletin. Vermilion.
- Bull. S. Dakota Sch. Mines.*—South Dakota School of Mines. Department of Geology. Bulletin. Rapid City.
- Bull. Sch. Mines Colorado.*—Bulletin of Colorado School of Mines. Golden.
- Bull. Sci. France Belgique.*—Bulletin scientifique de la France et de la Belgique. Paris.
- Bull. Sci. Lab. Denison Univ.*—Bulletin of Scientific Laboratories of Denison University. Granville.
- Bull. Sci. Soc. S. Antonio.*—Bulletin of Scientific Society of San Antonio, Texas. San Antonio.
- Bull. So. Calif. Acad. Sci.*—Bulletin of Southern California Academy of Science. Los Angeles.
- Bull. Soc. belge Géol.*—Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. (Consists of Procès-verb. and Mémoires.) Bruxelles.
- Bull. Soc. géol. Belgique.*—(Included in Ann. Soc. géol. Belgique, q. v.)
- Bull. Soc. géol. France.*—Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Normandie.*—Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Linn. Nord France.*—Bulletin de la Société Linnéenne du Nord de la France. Amiens.
- Bull. Soc. Natural. Moscou.*—Bulletin de la Société impériale des Naturalistes de Moscou. Moscou.
- Bull. Soc. Philom. Paris.*—Bulletin de la Société Philomatique de Paris. (Includes Comptes-rendus.) Paris.
- Bull. Soc. Sci. Linn.*—Bulletin de la Société royale Linnéenne. Bruxelles.
- Bull. Soc. Sci. nat. Ekaterinburg.*—Bulletin de la Société ouraliennne d'amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. Sci. nat. Elbeuf.*—Bulletin de la Société d'Études des Sciences naturelles d'Elbeuf.
- Bull. Soc. Sci. nat. Neuchâtel.*—Bulletin de la Société des Sciences naturelles de Neuchâtel.
- Bull. Soc. vaud. Sci. nat.*—Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. Soc. Zool. France.*—Bulletin de la Société Zoologique de France. Paris.
- Bull. U. S. Bur. Fish.*—Bulletin of United States Bureau of Fisheries. Washington.
- Bull. U. S. Dept. Agric. Biol.*—U. S. Department of Agriculture. Division of Biological Survey. Washington.
- Bull. U. S. Fish Comm.*—Bulletin of United States Fish Commission. Washington.
- Bull. U. S. Geol. Geog. Surv. Terrs. Hayden.*—Bulletin of United States Geological and Geographical Survey of the Territories. F. V. Hayden. Washington.

- Bull. U. S. Geol. Surv.*—Bulletin of United States Geological Survey. Washington.
- Bull. U. S. Nat. Mus.*—Bulletin of United States National Museum. Washington.
- Bull. Univ. Alberta, Dept. Geol.*—Bulletin of University of Alberta, Department of Geology. Edmonton.
- Bull. Univ. Kansas.*—Bulletin of University of Kansas. Lawrence.
- Bull. Univ. Montana.*—Bulletin of University of Montana. Missoula.
- Bull. Univ. Oregon.*—Bulletin of Oregon University. Eugene.
- Bull. Univ. Texas.*—Bulletin of University of Texas. Austin.
- Bull. Victoria Mem. Mus. Canada.*—Bulletin of Victoria Memorial Museum, Canada. Ottawa.
- Bull. Washburn Lab. Nat. Hist.*—Bulletin of Washburn Laboratory of Natural History. Topeka.
- Bull. Wis. Geol. Nat. Hist. Surv.*—Wisconsin Geological and Natural History Survey. Bulletin. Scientific Series. Madison.
- Bull. Wis. Nat. Hist. Soc.*—Bulletin of Wisconsin Natural History Society. Milwaukee.
- Bull. Zool. Soc. N. Y.*—News Bulletin of Zoological Society. New York.
- Bur. Amer. Ethnol. Bull.*—Bureau of American Ethnology. Bulletins. Washington.
- Bur. Amer. Ethnol., Rep.*—Annual report of Bureau of American Ethnology. Smithsonian Institution. Washington.
- Cambridge Nat. Hist.*—The Cambridge Natural History. Edited by Harmer and Shiply. 10 vols. London.
- Can. Geol. Surv.*—Geological Survey of Canada. Department (Section) of Mines. Ottawa.
- Canad. Field-Naturalist.*—The Canadian Field-Naturalist. Ottawa.
- Canad. Natural. Geol.*—Canadian Naturalist and Geologist. Montreal.
- Canad. Natural. Quart. Jour. Sci.*—The Canadian Naturalist and Quarterly Journal of Science. Cited also as Canadian Naturalist. Montreal.
- Canad. Rec. Sci.*—The Canadian Record of Science, including the proceedings of the Natural History Society of Montreal. Montreal.
- Cent. Mag.*—The Century illustrated monthly Magazine. New York.
- Centralbl. Min. Geol. Pal.*—Centralblatt für Mineralogie, Geologie und Palaeontologie; in Verbindung mit dem Neuen Jahrbuch für Mineralogie, Geologie und Palaeontologie. Stuttgart.
- Chall. Rep. Zool.*—Report of the scientific results of the voyage of H. M. S. Challenger during the years 1873-76. London.
- Christ. Albr. Univ. Kiel.*—Christian-Albrechts-Universität. Kiel.
- Coll. Yale Univ.*—Collections of Yale University. New Haven.
- Colorado Coll. Stud.*—Colorado College Studies. Papers read before the Colorado College Scientific Society. Colorado Springs.
- Com. Mus. Nac. Buenos Aires.*—Comunicaciones de Museo nacional de Historia natural. Buenos Aires.
- C. R. Acad. Sci. Paris.*—Comptes-rendus hebdomadaires des séances de l'Académie des Sciences. Paris.
- C. R. Assoc. Anatomistes.*—Comptes-rendus de l'Association des Anatomistes. Places of meeting change. France.
- C. R. Assoc. franç. Avanc. Sci.*—Comptes-rendus de l'Association française pour l'avancement des Sciences. Paris.
- C. R. Congr. internat. Géol.*—Comptes-rendus du Congrès international de Géologie. Places of meeting change.
- C. R. Congr. internat. Méd.*—Comptes-rendus du Congrès international de Médecine. Places of publication change.
- C. R. Congr. internat. Zool.*—Compte-rendu des Séances du Congrès international de Zoologie. See Proceedings and Verhandlungen. Places of meeting change.

- C. E. Soc. Biol.*—Comptes-rendus hebdomadaires des Séances et Mémoires de la Société de Biologie. Paris.
- C. E. Soc. géol. France.*—Compte-rendu des Séances de la Société géologique de France. Paris.
- C. E. Soc. Helvét.*—Archives des Sciences physiques et naturelles. Compte-rendu des travaux de la Société Helvétique des Sciences naturelles. Genève.
- C. E. Soc. philom. Paris.*—Comptes-rendus sommaires de la Société philomatique de Paris.
- Condor.*—The Condor. A magazine of western Ornithology. Berkeley.
- Contrib. Canad. Pal.*—Contributions to Canadian Palæontology. Montreal, Ottawa.
- Contrib. Mus. Geol. Univ. Mich.*—Contributions from Museum of Geology, University of Michigan. Ann Arbor.
- Contrib. Walker Mus.*—Contributions to Walker Museum, University of Chicago. Chicago.
- Copeia.*—Published to advance the science of cold-blooded vertebrates. New York.
- Corresp.-Bl. deutsch. Ges. Anthropol.*—Correspondenzblatt der deutschen Gesellschaft für Anthropologie. Braunschweig.
- Corresp.-Bl. Zahnärzte.*—Correspondenzblatt für Zahnärzte. Berlin.
- Dana Comm. Lectures.*—Dana Commemoration Lectures. New Haven.
- Dansk ornith. For. Tidsskr.*—Dansk ornithologisk Forenings Tidsskrift. Copenhagen.
- Danske Vidensk. Afhandl.*—Det kongelige Danske Videnskabernes Selskabs naturvidenskabelige og mathematiske Afhandlinger. Copenhagen.
- Danske Vidensk. Selsk. Biol. Medd.*—Det kongelige Danske Videnskabernes Selskabs Biologiske Meddelelser. Copenhagen.
- Danske Vidensk. Selsk. Forh. Overs.*—Oversigt over det kongelige Danske Videnskabernes Selskabs Forhandlinger. Copenhagen.
- Danske Vidensk. Selsk. Skr.*—Det kongelige Danske Videnskabernes Selskabs Skrifter. Naturvidenskabelige og mathematiske Afdeling. Copenhagen.
- Denk. Akad. Wiss. Wien.*—Denkschriften der kaiserlichen Akademie der Wissenschaften zu Wien. Math.-naturhist. Cl. Wien.
- Denk. med.-naturw. Ges. Jena.*—Denkschriften der medicinisch-naturwissenschaftlichen Gesellschaft. Jena.
- Denk. Schweiz. Ges. Naturw.*—Neue Denkschriften der allgemeinen Schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Also called: Nouveaux Mémoires de la Société Helvétique des Sciences naturelles. Zürich.
- Deutsche Monatsschr. Zahnheilk.*—Deutsche Monatsschrift für Zahnheilkunde. Organ des Central-Vereins deutscher Zahnärzte. Berlin.
- Deutsches Arch. Physiol.*—Deutsches Archiv für die Physiologie. Halle und Berlin.
- Diag. N. A. Mamm.*—Diagnoses of North American Mammals. Washington.
- Discovery.*—New York.
- E. Mus. Lund.*—Samling af Afhandlinger. E. Museo Lundii. Copenhagen.
- Eclogæ geol. Helvetiæ.*—Eclogæ geologicæ Helvetiæ. Lausanne.
- Econom. Geol.*—Economic Geology. Lancaster, Pa.
- Edinb. Jour. Sci.*—The Edinburgh Journal of Science. Edinburgh.
- Edinb. New Philos. Jour.*—Edinburgh New Philosophical Journal. Edinburgh.
- Edinb. New Philos. Mag.*—Edinburgh New Philosophical Magazine. Edinburgh.
- Emu.*—The Emu. Official organ of Australasian Ornithologists' Union. Melbourne.
- Encyclop. Brit.*—The Encyclopædia Britannica. Cambridge, England.
- Encyclop. Méthod. Syst. Anat.*—Encyclopédie Méthodique. Système Anatomique. Paris.
- Fauna arctica.*—Fauna arctica: eine Zusammenstellung der arktischen Tierformen. Jena.

- Fauna Flora, Upsala*.—Fauna och Flora: Populär Tidsskrift for Biologie. Upsala and Stockholm.
- Festschr. 3. Saecularfeier A. J. Maxim*.—Festschrift zur dritten Saecularfeier der Alma Julia Maximiliana. Gewidmet von der medicinischen Facultät. Würzburg.
- Festschr. 350-jähr. Jubelf. Thuring. Univ*.—Festschrift zur 350-jährigen Jubelfeier der Thüringer Universität. Jena.
- Field*.—The Field. London.
- Field Columb. Mus. Geol*.—Field Columbian Museum Publications. Geological Series. Chicago.
- Field Columb. Mus. Zool*.—Field Columbian Museum Publications. Zoological Series. Chicago.
- Field Mus. Nat. Hist. Geol*.—Field Museum Natural History. Geological Series. Chicago.
- Final Rep. Geol. Surv. Minn*.—Final report of Geological Survey of Minnesota. Minneapolis.
- Földt. Közl*.—Földtani Közlöny. Geologische Mittheilungen. Zeitschrift der ungarischen Gesellschaft. Budapest.
- Folio U. S. Geol. Surv*.—United States Geological Survey. Geologic Folio. Washington.
- Forest and Stream*.—New York.
- Fortschr. Geol. Pal*.—Fortschritte der Geologie und Palaeontologie. Berlin.
- Froriep's Notizen*.—Neue Notizen aus dem Gebiete der Natur und Heilkunde gesammelt und mitgetheilt von Ludwig Friederich v. Froriep und Dr. Robert Froriep. Weimar.
- Froriep's Tagsber*.—Tagsberichte über die Fortschritte der Natur und Heilkunde. Abtheilung für Zoologie und Palaeontologie. Weimar.
- Gelehrte Anz. Bayer. Akad*.—Gelehrte Anzeigen. Bayerische Akademie. München.
- Geognost. Jahresh*.—Geognostische Jahreshefte; herausgegeben von der geognostischen Abtheilung des k. bayer. Oberbergamtes in München.
- Geol. Centralbl*.—Geologisches Centralblatt: Anzeiger für Geologie, Petrographie, Palaeontologie und verwandte Wissenschaften. Leipzig.
- Geol. Mag*.—The Geological Magazine, or Monthly Journal of Geology; with which is incorporated "The Geologist." New series. London.
- Geol. Pal. Abh. Jena*.—Geologische und Palaeontologische Abhandlungen. E. Koken. Jena.
- Geol. Soc. Amer. Prelim. lists*.—Geological Society of America. Preliminary lists of titles and abstracts to be offered at the meetings.
- Geol. Surv. Ala*.—Reports of Geological Survey of Alabama. Montgomery.
- Geol. Surv. Ill*.—Geological Survey of Illinois, Springfield. Also Illinois State Geological Survey. Urbana.
- Geol. Surv. Ind*.—Geological Survey of Indiana; also reports of Department of Geology and Natural History; of Bureau of Statistics and Geology; Department of Geology and Natural Resources. Indianapolis.
- Geol. Surv. Michigan*.—Geological Survey of Michigan. Lansing.
- Geol. Surv. Missouri*.—Reports of Geological Survey of the State of Missouri. Jefferson City.
- Geol. Surv. N. Carolina*.—Reports of Geological Survey of North Carolina. Raleigh.
- Geol. Surv. New York*.—Reports of various State Geologists. Albany.
- Geol. Surv. Nigeria*.—Geological Survey of Nigeria.
- Geol. Surv. Ohio*.—Reports of Geological Survey of Ohio. Columbus.
- Geol. Surv. Penn*.—Reports of Geological Survey of Pennsylvania. Harrisburg.
- Geol. Surv. Texas*.—Reports of Geological Survey of Texas. Austin.
- Geol. Surv. Wisconsin*.—Reports of Geological Survey of Wisconsin. Madison.

- Geol. Zentralbl.*—See *Geol. Centralbl.*
- Geologist.*—The *Geologist*. London.
- Gior. Sci. nat. econ. Palermo.*—Giornale di Scienze naturali ed economiche. Palermo.
- Globus.*—Illustrierte Zeitschrift für Länder- und Völkerkunde. Braunschweig.
- Guide to Nature.*—The Guide to Nature, Education, and Recreation. Stamford, Conn.
- Handel. Ned. Nat. Geneesk. Congr.*—Handelingen van het Nederlandsch Natuur- en Geneeskundig Congres.
- Harper's Month. Mag.*—Harper's Monthly Magazine. New York.
- Harper's New Month. Mag.*—Harper's New Monthly Magazine. New York.
- Harvey Lect.*—Harvey Lectures. Philadelphia, London.
- Hertwig's Handb. vergl. exper. Entwickelungsl. Wirbelt.*—Hertwig's Handbuch der vergleichenden und experimentalen Entwicklungslehre der Wirbeltiere. 8vo. Jena.
- Ibis.*—The Ibis: a quarterly Journal of Ornithology. London.
- Ichth. Ohien.*—Ichthyologia Ohiensis, or Natural history of the fishes inhabiting the River Ohio and its tributary streams. 8vo. Lexington, Ky., 1820.
- Ill. Biol. Monogr.*—Illinois Biological Monographs. Published by the University of Illinois. Urbana.
- Internat. Amerikanisten-Kongr.*—Internationaler Amerikanisten-Kongress. Same as below. Places of meeting change.
- Internat. Congr. Americanists.*—International Congress of Americanists. Same as above.
- Internat. Geol. Congr.*—See C. R. Congr. internat. Géol.
- Internat. Jour. Anat. Physiol.*—Monthly international Journal of Anatomy and Physiology. Also issued as: Journal international d'anatomie et de physiologie; and as: Internationale Monatsschrift für Anatomie und Histologie. Paris, Leipzig, London.
- Internat. Jour. Orthodon.*—The international Journal of Orthodontia. St. Louis.
- Internat. Monatsschr. Anat. Physiol.*—Internationale Monatsschrift für Anatomie und Physiologie. Leipzig.
- Internat. Ornith. Congr.*—International Ornithological Congress. Places of meeting change.
- Internat. Rev. Hydrobiol. Hydrogr.*—International Revue der gesamten Hydrobiologie und Hydrographie. Leipzig.
- Iowa Geol. Surv.*—Annual reports of Iowa Geological Survey. Des Moines.
- Irish Naturalist.*—The Irish Naturalist. Dublin.
- Isis von Oken.*—Isis (oder Encyclopädische Zeitung). Published by L. Oken. Jena.
- Jahrb. geol. Landesanst. Berlin.*—Jahrbuch der königlich-preussischen geologischen Landesanstalt und Bergakademie zu Berlin.
- Jahrb. geol. Reichsanst. Wien.*—Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Wien.
- Jahrb. Min. Geogn. Geol.*—Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefactenkunde. Stuttgart.
- Jahrb. Min. Geol. Pal.*—Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. With also Beilage-Band. Stuttgart.
- Jahrb. Nassau. Ver. Naturk.*—Jahrbuch des Nassauischen Vereins für Naturkunde. Wiesbaden.
- Jahrb. St. Gallisch. naturw. Ges.*—Jahrbuch der St. Gallischen naturwissenschaftlichen Gesellschaft. St. Gallen.
- Jahrb. Wiss. Tierzucht.*—Jahrbuch für wissenschaftliche und praktische Tierzucht. Hannover.

- Jahresber. Anat. Entwickl.*—Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte. Jena.
- Jahresber. böhm. Ges. Wiss.*—Jahresbericht der königlich-böhmischen Gesellschaft der Wissenschaften. Prag.
- Jahresber. niedersächs. geol. Ver.*—Jahresbericht des niedersächsischen geologischen Vereins. Geologisches. Hannover.
- Jahresber. ornith. Ver. München.*—Jahresbericht des ornithologischen Vereins München. München.
- Jahresber. schles. Ges. vaterl. Kult.*—Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur. Breslau.
- Jahresber. Ver. Naturwiss. Braunsch.*—Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Braunschweig.
- Jahresh. Ver. Naturk. Württemb.*—Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Jena. Zeitschr. Naturwiss.*—Jenaische Zeitschrift für Naturwissenschaft. Jena.
- Johns Hopkins Univ. Circ.*—Johns Hopkins University Circulars. Baltimore.
- Johns Hopkins Univ. Stud.*—Johns Hopkins University Studies from Biological Laboratory. Baltimore.
- Jour. Acad. Nat. Sci. Phila.*—Journal of Academy of Natural Sciences of Philadelphia. Philadelphia.
- Jour. Agric. Res.*—Journal of Agricultural Research. Washington.
- Jour. Amer. Med. Assoc.*—Journal of American Medical Association. Chicago.
- Jour. Amer. Mus. Nat. Hist.*—Journal of American Museum of Natural History. New York.
- Jour. Anat. Lond.*—The Journal of Anatomy. Originally The Journal of Anatomy and Physiology. London.
- Jour. Anat. Physiol. Lond.*—The Journal of Anatomy and Physiology, Normal and Pathological. London.
- Jour. Anat. Physiol. Paris.*—Journal de l'Anatomie et de la Physiologie normales et pathologiques de l'homme et des animaux. Paris.
- Jour. Asiatic Soc. Bengal.*—Journal of Asiatic Society of Bengal. Calcutta.
- Jour. Cincinnati Soc. Nat. Hist.*—Journal of Cincinnati Society of Natural History. Cincinnati.
- Jour. Coll. Sci. Tokyo.*—Journal of College of Science, Imp. University of Tokyo. Tokyo.
- Jour. Comp. Med. Surg.*—Journal of Comparative Medicine and Surgery. Philadelphia.
- Jour. Comp. Neur.*—Journal of Comparative Neurology. Granville, Ohio.
- Jour. Elisha Mitchell Sci. Soc.*—Journal of Elisha Mitchell Scientific Society. Chapel Hill, N. C.
- Jour. Franklin Inst.*—Journal of Franklin Institute. Philadelphia.
- Jour. Geol.*—The Journal of Geology. A semi-quarterly Magazine of Geology and related Sciences. Chicago.
- Jour. Geol. Soc. Tokyo.*—The Journal of Geological Society of Tokyo. Tokyo.
- Jour. Internat. Anat.*—Journal international d'anatomie et de physiologie. (See Internat. Jour. Anat. Physiol.)
- Jour. Linn. Soc. Zool.*—Journal of Linnean Society: Zoology. London.
- Jour. Liverp. Geol. Assoc.*—Liverpool Geological Association: Journal. Liverpool.
- Jour. Mamm.*—Journal of Mammalogy. Published quarterly by American Society of Mammalogists. Baltimore.
- Jour. Mar. Biol. Assoc. U. K.*—Journal of Marine Biological Association of the United Kingdom. Plymouth.
- Jour. Morphol.*—Journal of Morphology. Later called Journal of Morphology and Physiology. Philadelphia.

- Jour. Ornith.*—Journal für Ornithologie. Deutsches Centralorgan für die gesammte Ornithologie. Leipzig.
- Jour. Phys. Chim. Hist. nat.*—Journal de Physique, de Chimie et d'Histoire naturelle. Paris.
- Jour. Proc. Roy. Soc. N. S. Wales.*—Journal and Proceedings of Royal Society of New South Wales. Sidney.
- Jour. Roy. Geol. Soc. Ireland.*—Journal of Royal Geological Society of Ireland. Dublin, London.
- Jour. Roy. Micr. Soc.*—Journal of Royal Microscopical Society. London.
- Jour. Victoria Inst.*—Journal of transactions of Victoria Institute, or Philosophical Society of Great Britain. London.
- Jour. Wash. Acad. Sci.*—Journal of Washington Academy of Sciences. Washington.
- Jour. Zool. Paris.*—Journal de Zoologie. Paris.
- Jour. Zool. Res.*—Journal of Zoological Research. London.
- K. svenska Vetensk. Akad. Handl.*—Kongliga svenska Vetenskapsakademiens. Upsala, Stockholm.
- Kansas City Rev. Sci. Indust.*—The Kansas City Review of Science and Industry. Kansas City, Missouri.
- Kansas Univ. Quart.*—Kansas University Quarterly. Lawrence.
- Kansas Univ. Sci. Bull.*—The Kansas University Science Bulletin. Lawrence.
- Kent Scient. Inst. Misc. Pap.*—Kent Scientific Institute, Miscellaneous Papers. Grand Rapids.
- Knowl. Scient. News.*—Knowledge and Scientific News. London.
- Knowledge.*—An illustrated magazine of Science. London.
- Korresp.-Bl. deutsch. Ges. Anthropol.*—Korrespondenzblatt der deutschen Gesellschaft für Anthropologie, Ethnologie und Urgeschichte. Braunschweig.
- Korresp.-Bl. Ver. Riga.*—Korrespondenzblatt des Naturforscher-Vereins. Riga.
- La Géographie.*—Bulletin de la Société de Géographie. Paris.
- La Nature.*—Revue des Sciences. Paris.
- Lancet.*—The Lancet. A journal of British and foreign medicine, surgery, etc. London.
- L'Anthrop. Paris.*—L'Anthropologie. Paris.
- Le Naturaliste.*—Revue illustrée des sciences naturelles. Paris.
- Leopoldina.*—Amtliches Organ der kaiserlichen Leopoldino-Carolinischen deutschen Akademie der Naturforscher. Halle.
- L'Institut.*—Journal des Académies et Sociétés scientifiques de la France et de l'étranger. Paris.
- Lloyd's Nat. Hist. Ser.*—Lloyd's Natural History Series. Edited by Bowler Sharpe. London.
- London, Edinb. Dublin Philos. Mag.*—The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- London, Edinb. Philos. Mag.*—The London and Edinburgh Philosophical Magazine and Journal of Science.
- London, Med. Reposit.*—London Medical Repository. London.
- Los Angeles Mus. Hist. Sci. Publ.*—Publications of the Los Angeles County Museum of History, Science and Art. Los Angeles.
- Lund. Univ. Arsskr.*—Lunds Universitets Arsskrift. Lund. (See also Acta Univ. Lund.)
- Mag. Nat. Hist.*—The Magazine of Natural History. London.
- Magyar Föld. int. evkôn.*—A Magyar Királyi Földtani intézet evkönyve. (Annals of the Hungarian Royal Geological Bureau.) Budapest.
- Marine Biol. Lab. Woods Hole, Lectures.*—Marine Biological Laboratory of Woods Hole. Lectures. Boston, London.
- Maryland Geol. Surv.*—Maryland Geological Survey. Baltimore.

- Math. naturw. Ber. Ungarn.*—Mathematische und naturwissenschaftliche Berichte aus Ungarn, etc. Leipzig.
- McClure's Mag.*—McClure's Magazine. New York.
- Med. Phys. Jour. Lond.*—Medical and Physical Journal. London.
- Med. Record, N. Y.*—The Medical Record. A semi-monthly Journal of medicine and surgery. New York.
- Med. Reposit. N. Y.*—The Medical Repository. New York.
- Med. Times and Gazette.*—Medical Times and Gazette. London.
- Meddelelser om Grönland.*—Copenhagen.
- Mél. biol.*—Mélanges biologiques. (Reprints from Bulletin Acad. St. Petersburg.)
- Mém. Acad. Sci. Belgique.*—Mémoires de l'Académie des Sciences et des Beaux-Arts de Belgique. Bruxelles.
- Mém. Acad. Sci. France.*—Mémoires de l'Académie des Sciences de l'Institut de France. Paris.
- Mém. Acad. Sci. Lett. Montpellier.*—Mémoires de la Section de l'Académie des Sciences et Lettres de Montpellier.
- Mém. Acad. Sci. Lyon.*—Mémoires de l'Académie des Sciences, Belles-Lettres et Arts de Lyon. Lyon.
- Mém. Acad. Sci. St. Pétersb.*—Zapiski imperatorskoi akademii nauk. (Mémoires de l'Académie impériale des Sciences de Saint-Pétersbourg.) St. Pétersbourg.
- Mém. Acad. Sci. Toulouse.*—Mémoires de l'Académie des Sciences de Toulouse. Toulouse.
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Proc. Akad. Wet. Amsterdam.—Proceedings of Section of Sciences. Koninklijke Akademie van Wetenschappen. Amsterdam.

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Proc. Amer. Assoc. Adv. Sci.—Proceedings of American Association for Advancement of Science. Washington.

Proc. Amer. Micros. Soc.—Proceedings of American Microscopical Society. Washington.

Proc. Amer. Philos. Soc.—Proceedings of American Philosophical Society. Philadelphia.

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Proc. Internat. Zool. Congr.—Proceedings of International Zoological Congress. Places of meeting change.

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By OLIVER PERRY HAY

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1908 B
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Denk. Akad. Wiss. Wien, LXXXI, 139-195, 56 text-figs.

The bibliography includes 130 titles. This paper was issued in 1907.

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Verh. zool.-bot. Ges. Wien, LVIII (35-38).
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Angriffswaffen und Verteidigungsmittel fossiler Wirbeltiere.
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- 1908 E
Die Anpassungsformen der Wirbeltiere an das Meeresleben.
Schrift. Ver. Verbr. naturw. Kenntn. Wien, XLVIII, 395-422, 6 text-figs.
Abstract in Geol. Centralbl., xv, 602.
- 1908 F
Die Anwendung der Röntgenstrahlen in der Paläontologie.
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- 1908 G
Discussion regarding ichthyosaurs.
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- 1909 C
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- 1909 D
Konvergenz und Deszendenz.
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- Abel, O.—Continued** 1909 E
Was verstehen wir unter monophyletischer und polyphyletischer Abstammung?
Verh. zool.-bot. Ges. Wien, LIX (243-249, 253, 254, 255).
- 1909 F
Das Zeitalter der Reptilienherrschaft.
Schrift. Ver. Verbr. naturw. Kenntn. Wien, XLIX, 451-481.
- 1910 A
Über die allgemeinen Prinzipien der paläontologischen Rekonstruktion.
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- 1910 B
Diskussion über Riesenwuchs.
Verh. zool.-bot. Ges. Wien, LX (185-187).
- 1910 C
Die Vorfahren der Vögel und ihre Lebensweise.
Verh. zool.-bot. Ges. Wien, LX (230-231).
- 1910 D
Die Rekonstruktion des *Diplodocus*.
Abh. zool.-bot. Ges. Wien, v, Heft 3, 1-60, pls. i-iii, 5 text-figs.
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- 1910 E
Kritische Untersuchungen über die paläogenen Rhinocerotiden Europas.
Abh. geol. Reichsanst. Wien, xx, Heft 3, 1-52, pls. i, II.
For a summary see Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 461-469.
Abstract in Sci. Progress, vi, 561.
- 1911 A
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Verh. zool.-bot. Ges. Wien, LXI, 144-191, 7 text-figs.
Review in Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 470-475.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 156; Sci. Progress, vi, 566.
- 1912 A
Kämpfe, Verletzungen und Kampf-anpassungen bei fossilen Wirbeltieren.
Verh. zool.-bot. Ges. Wien, LXII (53-55).
- 1912 B
Über die verschiedenen Ursachen des gehäuftten Vorkommens von Tierleichen in Gesteinen.
Verh. zool.-bot. Ges. Wien, LXII (57-61).

Abel, O.—Continued

1912 C

Wissenschaftliche Ergebnisse der Wiener Universitätsreise nach Griechenland. I: Fossilfunde in Pikermi.

Verh. zool.-bot. Ges. Wien, LXXI (81-63), 1 text-fig.

1912 D

Verfehlte Anpassungen bei fossilen Wirbeltieren.

Zool. Jahrb., Suppl. xv, 1, 597-609, with 2 text-figs

Abstract in Neues Jahrb. Min. Geol. Pal., 1913, II, Ref., 143-145.

1912 E

Über den Erwerb des Flugvermögens.

Schrift. Ver. Verbr. naturw. Kenntn., LII, 215-236, 2 text-figs.

Abstract in Geol. Centralbl., XIX, 42.

1912 F

Grundzüge der Palaeobiologie der Wirbeltiere.

i-xvi+1-708 pages, 470 illustrations. 8vo. Stuttgart.

Reviews in Science (2), xxxv, 1912, 341-342; Zeitschr. Morphol., Anthropol., xvi, 1913, 175-196; Naturwissenschaften, Berlin, II, 424-425; Rev. crit. Paléozool., xvi, 73.

Abstract in Geol. Centralbl., XX, 582-585; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 15.

1912 G

Cetaceensstudien. III: Rekonstruktion des Schädels von *Prosqalodon australe* Lyd. aus dem Miozän Patagoniens.

Sitz.-Ber. Akad. Wiss. Wien, CXXI, Abt. I, 57-75, pls. 1-III, 1 text-fig.

Abstracts in Geol. Centralbl., XX, 525-526; Neues Jahrb. Min. Geol. Pal., 1915, I, Ref., 135.

Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 21.

1913 A

Die eocänen Sirenen der Mittelmeerregion. Erster Teil: Der Schädel von *Eotherium aegyptiacum*.

Palaeontogr., LIX, 289-300, pls. xxx-xxxiv, 5 text-figs.

Abstracts in Rev. crit. Paléozool., XVII, 71; Geol. Centralbl., XIX, 525.

1913 B

Säugetiere (Paläontologie).

Handwörterbuch Naturwissenschaften (Gustav Fischer, Jena), VIII, 695-759, figs. 1-122.

Abel, O.—Continued

1913 C

Die Vorfahren der Bartenwale.

Denk. Akad. Wiss. Wien, xc, 155-224, pls. i-xii, 19 text-figs.

There are abundant citations of the literature.

Abstract in Geol. Zentralbl., XXXIII, 316.

1914 A

Die vorzeitlichen Säugetiere.

8vo., i-vii+1-309 pages, 2 tables, 250 text-figs. Jena, Gustav Fischer.

Abstracts in Zeitschr. Morph., Anthropol., XVII, 693-694; Science (n.s.), XI, 1914, 787-788; Neues Jahrb. Min. Geol. Pal., 1915, II, Ref., 280-281.

1914 B

Die Tiere der Vorwelt.

i-iv+1-83 pages, 31 illustrations. Aus Natur und Gesteinswelt. 399 Bändchen.

Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 318-319.

1914 C

Paläontologie und Paläozoologie.

Abstammungslehre: System, Palaeont., Biogeog. (Hertwig and Wettstein), IV, 303-395, 8 text-figs.

The bibliography contains 19 titles.

1914 D

Neuere Wege phylogenetischer Forschung.

Naturwiss. Berlin, II, 25-30, 5 figs.

1915 A

Die Paläozoologie in Forschung und Lehre.

Naturwiss. Berlin, III, 413-419.

1916 A

Die Dinosaurier und Ornithosaurier Nordamerikas.

Naturwiss. Berlin, IV, 469-474; 494-498, 11 figs

1919 A

Die Stämme der Wirbeltiere.

Berlin and Leipzig. 1919.

8vo., i-xviii+1-914 pages, 669 text-figs. Reviews in Centralbl. Min. Geol. Pal., 1921, 637-638. Geol. Mag. LVIII, 45-46.

Abstracts in Geol. Zentralbl., XXVII, 183; Nature, CVI, 274.

1919 B

Neue Rekonstruktion der Flugsauriergattungen *Pterodactylus* und *Rhamphorhynchus*.

Naturwiss. Berlin, VII, 661-665, 7 figs.

1920 A

Lehrbuch der Paläozoologie.

8vo., Jena, i-vii+1-500 pages, 700 figs. Review in Centralbl. Min. Geol. Pal., 1921, 638-640.

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 Studien über die Lebensweise von *Chalicotherium*.
 Acta Zool., I, 21-60, 14 text-figs.
 The bibliography is in the form of foot-
 notes.
- 1921 A
 Die Methoden der paläobiologischen
 Forschung.
 Pages 129-312, 129 figs. Extract from
 "Handbuch der biologischen Arbeitsmethod"
 published by Prof. Dr. Emil Abderhalden,
 Berlin.
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- 1922 A
 Kritik der früheren Rekonstruk-
 tionen und neue Rekonstruktion von
Trachodon.
 Palaeont. Zeitschr., iv, 134-146, 1 fig.
- 1922 B
Desmostylus: ein mariner Multi-
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 pazifischen Küstenregion.
 Anz. Akad. Wiss. Wien, 1922, No. 14, 1-3.
- 1922 C
 Lebensbilder aus der Tierwelt der
 Vorzeit.
 8vo., Jena, i-viii+1-643 pages, 505 figs.
 Abstract in Geol. Zentralbl., xxviii, 90.
- 1922 D
 Die Schauzenverletzungen der Para-
 suchier und ihre biologische Bedeu-
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 Palaeont. Zeitschr., v, 26-57, 10 figs.
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- 1922 E
Desmostylus: ein mariner Multi-
 tuberculate aus dem Miozän der nord-
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 Acta Zool., iii, 361-394, pls. i-iii, 5 text-
 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal.,
 1924, ii, 455.
- 1922 F
 Ueber wiederholten Wechsel der
 Körperformen in Laufe der Stamm-
 esgeschichte der Teleostomen.
 Amsterdam Bydr. Dierk., xxi (Feest-
 num. Max Weber), 73-87, 15 text-figs.
 Bibliography in foot-notes.
- Abel, O.—Continued** 1923 A
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 Miozän der nordpazifischen Küsten-
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 C. Wiman, E. Stromer, O. Jaekel and T.
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 1924, ii, 455.
- 1923 B
 Discussion on *Ichthyosauria*.
 Palaeont. Zeitschr., v, 271.
- 1924 A
 Die neuen Dinosaurierfunde in der
 Oberkreide Canadas.
 Naturwiss. Berlin, xii, 709-716, 12 figs.
- 1924 B
 Die Rekonstruktion von *Palaeothe-
 rium magnum* Cuvier.
 Palaeont. Zeitschr., vi, 14-24, pl. ii, oleat,
 2 text-figs.
- 1925 A
 Geschichte und Methode der Rekon-
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 8vo., Jena, i-viii+1-227 pages, 225 figs.
 Citations of literature in foot-notes.
- 1925 B
 On a skeleton of *Pterodactylus an-
 tiquus* from the lithographic shales of
 Bavaria, with remains of skin and
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 amerika und Westindien.
 8vo., Jena, i-x+1-462 pages, 273 figs.
- 1926 C
 Beiträge zu einer Theorie des
 knöchernen Schädels der Wirbeltiere.
 Palaeont. Zeitschr., viii, 43-44.
- 1926 D
 Morphologische Untersuchungen über
 die Grifflbeine der Pferde.
 Anz. Akad. Wiss. Wien., lxvii, 63-64.

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Neue Untersuchungen über Desmostylus einen Monotremen aus dem Tertiär der pazifischen Küstenregion.
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 A preliminary study of early mammals in a new fauna from Colorado.
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 On the osteological symmetry of the camel, *Camelus bactrianus*.
 Trans. Linn. Soc. London (1), xvi (1833), 525-585.
- 1854 A
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 Prepared with the assistance of W. B. Bakie and Charles Barron.
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 Postglacial origin and migrations of the life of the northeastern United States.
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- 1905 A
 The postglacial dispersal of the North American biota.
 Biol. Bull., ix, 53-71, 1 text-fig.
 See also Rep. 8th Internat. Geogr. Congr., 1904, 623-637, with references to the literature.
- Adams, Leverett Allen** 1919 A
 A memoir on the phylogeny of the jaw muscles in recent and fossil vertebrates.
 Ann. N. Y. Acad. Sci., xxviii, 51-166, pls. i-xiii and numerous text-figs.
 The bibliography occupies pages 160-165.
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 See Gregory, W. K., and L. A. Adams.
- Adams, Lionel E.** 1903 A
 A contribution to our knowledge of the mole (*Talpa europæa*).
 Mem. Manchester Soc., XLVII, No. 4, 1-39, 28 text-figs.
- Adams, Michael F.** 1807 A
 Some account of a journey to the Frozen Sea, and the discovery of the remains of a mammoth.
 Tilloch's Philos. Mag., xxix, 141-153.
 A French translation of this paper is to be found in Tilesius, 1815 A, 431-455.
- Addison, William H. F., and J. L. Appleton, Jr.** 1915 A
 The structure and growth of the incisor teeth of the albino rat.
 Jour. Morphol., xxvi, 43-96, 29 figs.
 The bibliography presents 32 titles.
- Adelmann, H. B.** See Kingsbury and Adelmann.
- Adelung, N.** 1901 A
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 Zur Entwicklungsgeschichte des Zahnsystems von *Sus scrofa domest.*
 Anat. Anz., xix, 481-490, 6 text-figs.
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- 1901 C
 Noch Einiges zur Frage nach der Beurtheilung überzähliger Zähne nebst Bemerkungen über die regressiven Entwicklungsvorgänge im Zahnsystem der Säugethiere.
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 Ueber den Zahnwechsel von *Cavia cobaya*.
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- 1904 B
 Über das Gebiss im Lichte der Entwicklungslehre.
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Adloff, P.—Continued 1905 A

Zur Entwicklung des Säugetiergebisses.

Anat. Anz., xxvi, 333-343.

1906 A

Einige Besonderheiten des menschlichen Gebisses und ihre stammesgeschichtliche Bedeutung.

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Appended is a bibliography of 29 titles.

1907 A

Zur Frage der Konkreszenztheorie.

Jena. Zeitschr. Naturwiss., xliii, 530-536.

For Dependoff's rejoinder see same volume, pages 802-808.

1908 A

Die Differenzierung des Primatengebisses.

Zeitschr. Morphol. Anthrop., xi, 377-384.

1908 B

Ausgestorbene Menschenaffen und ihre Beziehungen zum Menschen.

Schrift. phys. ökonom. Ges. Königsb., xlviii, 113-116.

1909 A

Zur Frage der Differenzierung des Primatengebisses.

Deutsche Monatsschr. Zahnheilk., xxvii, 444-449.

1909 B

Überreste einer prälakteen Zahnreihe beim Menschen.

Deutsche Monatsschr. Zahnheilk., xxvii, 828-832.

1910 A

Zur Entwicklungsgeschichte des Nagetiergebisses.

Anat. Anz., xxxvii, 257-271, 76 text-figs.

1910 B

Über den gegenwärtigen Stand der vergleichenden Morphologie des Zahnsystems der Säugetiere und des Menschen.

Ergebn. Ges. Zahnheilk., Jahrg. i, Heft 1, 226-280, 8 text-figs.

1911 A

Über die Phylogese des Primatengebisses und das Zukunftsgebiß des Menschen.

Zeitschr. Morphol. Anthrop., xiii, 505-532, pls. xvii, xviii, 1 text-fig.

Appended is a bibliography of 13 titles.

Adloff, P.—Continued 1912 A

Noch einmal die Bolk'sche Hypothese und die Differenzierung des Primatengebisses.

Zeitschr. Morphol., Anthrop., xv, 381-400, pls. x-xii, 1 text-fig.

1913 A

Zur Frage der prälakteen Anlagen.

Anat. Anz., xliii, 236-238.

1913 B

Ueber probleme der Gebissentwicklung.

Anat. Anz. Ergänzungsh., xlii, 188-195.

1913 C

Zur Entwicklungsgeschichte des menschlichen Zahnsystems nebst Bemerkungen zur Frage der prälakteen Dentition, der sogenannten Konkreszenztheorie und der Entwicklung des Säugetiergebisses überhaupt.

Arch. mikr. Anat., lxxxii, 1-33, pls. i, ii, 5 text-figs.

1913 D

Review of Bolk's Die Ontogenie der Primatenzähne (Bolk, L. 1913 A).

Naturwiss. Berlin, i, 869-870.

1914 A

Zur Entwicklungsgeschichte des Cervidengebisses, ein Beitrag zur Frage der prälakteen Dentition.

Anat. Anz., xlii, 359-366, 15 text-figs.

1915 A

Probleme der Gebissentwicklung.

Zeitschr. Morphol. Anthrop., xvii, 433-448, 1 text-fig.

1916 A

Entwicklungsgeschichte des Zahnsystems von *Centetes caudatus*, nebst Bemerkungen zur Frage der Existenz einer präpermanenten Dentition.

Anat. Anz., xlix, 593-600, 8 figs.

The bibliography contains 7 titles.

1917 A

Zur Frage der Konkreszenztheorie.

Anat. Anz., i, 286-288.

1917 B

Einige Bemerkungen über das Problem der Entstehung der Zahnform.

Anat. Anz., i, 348-354.

1918 A

Die Beziehungen zwischen Reptilien, Beutler- und Plazentaliergebiss.

Anat. Anz., li, 129-142, 7 figs.

- Adloff, P.**—Continued 1920 A
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Anat. Anz., LIII, 175-191.
- 1920 B
Die Ontogenie der Elefantengebiss.
Anat. Anz., LII, 534-540.
- 1927 A
Das Gebiss des Menschen und der Anthropoiden und das Abstammungsproblem.
Zeitschr. Morphol. Anthrop., xxvi, 431-449, 7 figs.
The bibliography appears in foot-notes.
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Morphol. Jahrb., xxvii, 299-308, 1 text-fig.
- 1922 A
Über den Brustkorb und die Wirbelsäule der Vögel.
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The bibliography occupies page 481.
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Ueber das Kiefergerüst der Vögel.
Arch. Anat. Physiol. Med., 1873, 699-705, pl. xii.
- Arabäck-Christie-Linde, A.** 1907 A
Der Bau der Soriciden und ihre Beziehungen zu andern Säugetieren.
Morphol. Jahrb., xxxvi, 463-514, 35 text-figs.
- 1909 A
On intermediate forms among Chiroptera.
Zool. Anz., xxxiv, 572-582, 4 text-figs.
- 1912 A
On the development of the teeth of the Soricidæ: an ontogenetical inquiry.
Ann. Mag. Nat. Hist. (8), ix, 601-625, pls. xviii, xix, 9 text-figs.
For correction of error see Ann. Mag. Nat. Hist. (8), x, 264.
- 1912 B
Der Bau der Soriciden und ihre Beziehungen zu andern Säugetieren. II: Zur Entwicklungsgeschichte der Zähne. Ontogenie.
Morphol. Jahrb., xlv, 201-296, pl. vi, 47 text-figs.
- Agar, W. E.** 1906 A
The development of the skull and visceral arches in *Lepidosiren* and *Protopterus*.
Trans. Roy. Soc. Edinb., xlv, 49-64, pls. i-iii.
- 1907 A
The development of the anterior mesoderm, and paired fins with their nerves, in *Lepidosiren* and *Protopterus*.
Trans. Roy. Soc. Edinb., xlv, 611-639, 1 pl., 7 text-figs.
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On an embryonic appendage of the claws of the *Amniota*, probably of an adaptive nature.
Anat. Anz., xxxv, 373-380, 7 figs.
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- Agassiz, Alexander** 1877 A
On the young stages of some osseous fishes. I: Development of the tail.
Proc. Amer. Acad. Arts Sci., xiii, 117-127, pls. 1, ii, 2 text-figs.
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Untersuchungen über die fossilen Fische der Lias-Formation.
Jahrb. Min. Geogn. Geol., 1832, 139-149.
- 1833 A
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- 1834 A
Abgerissene Bemerkungen über fossile Fische.
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- 1835 B
Work of Agassiz on fossil fishes.
Edinb. New Philos. Jour., xix, 331-346.
This is an anonymous review of Agassiz's work, with extensive quotations.
- 1835 C
Sur un nouveau poisson fossile de Burdiehouse.
L'Institut, iii, 58.
An abstract of an address on *Megalichthys hubberti*, but without technical description.
- 1835 D
Sur les poissons fossiles du calcaire de Burdiehouse.
L'Institut, ii, 189-190.
Abstract of a communication from Agassiz regarding fossil fishes. Presented by Mr. S. Hibbert.

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[Remarks on *Lepisosteus*.]
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- 1835 F
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Quotation from L. Agassiz in a communication made by Professor Jameson.
- 1835 G
Remarques détachées sur des poissons fossiles.
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- 1835 H
Coup d'oeil synoptique des ganoïdes fossiles.
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- 1835 I
On a new classification of fishes, and on the geological distribution of fossil fishes.
Proc. Geol. Soc. Lond., pt. 2, 99-102.
- 1835 J
On the anatomy of the genus *Lepisosteus*, with descriptions of two new species.
Proc. Zool. Soc. Lond., pt. 2, 1834, 119-120.
- 1836 A
Views of the affinities and distribution of the fishes of the family Cyprinidae.
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- 1836 B
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Nuevos restos de mamíferos fósiles oligocenos recogidos por el profesor Pedro Scalabrini y pertenecientes al Museo Provincial de la Ciudad del Parana.
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1889 A

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1891 E

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There is appended an extensive bibliography.

1893 B

New discoveries of fossil Mammalia of southern Patagonia.

Amer. Naturalist, XXVII, 439-449.

Translated from Rev. Scient. Paris, LI, 13-17.

1893 C

Les premiers mammifères. Relations entre les mammifères diprotodontes éocènes de l'Amérique du Nord et ceux de la République Argentine.

Rev. gen. Sci. Paris, IV, 77-81, 5 figs.

1893 D

Les mammifères fossiles de la Patagonie australe.

Rev. Scient. Paris, LI, 13-17.

1893 E

Nouvelles découvertes paléontologiques dans la Patagonie australe.

Rev. Scient. Paris, LI, 731.

1897 B

South America as the source of the Tertiary Mammalia.

Nat. Sci., XI, Oct., 256-264.

Ameghino, F.—Continued 1898 C

L'âge des couches fossilifères de Patagonie; nouvelles découvertes de mammifères fossiles.

Rev. Scient. Paris (4), x, 72-74.

1900 A

Mamíferos del cretáceo inferior de Patagonia (Formación de las areniscas abigarradas).

Commun. Mus. Nac. Buenos Aires, I, 197-206, 5 text-figs.

Abstract in Geol. Centralbl., I, 122.

1900 B

Grypothierium, nom de genre à effacer.

Commun. Mus. Nac. Buenos Aires, I, 257-260.

Abstract in Geol. Centralbl., II, 187.

1901 A

Notices préliminaires sur des ongulés nouveaux des terrains crétacés de Patagonie.

Bol. Acad. Cien. Córdoba, XVI, 349-426.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, I, Ref., 167-172; Rev. crit. Paléozool., VI, 53-59.

1902 A

Linea filogenética de los proboscídeos.

An. Mus. Nac. Buenos Aires (3), I, 19-42, with a phylogenetic table and 38 text-figs.

Abstract in Rev. crit. Paléozool., I-4; Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 117-118.

1902 B

Cuadro sinóptico de las formaciones sedimentarias, terciarias y cretáceas de la Argentina en relación con el desarrollo y descendencia de los mamíferos.

An. Mus. Nac. Buenos Aires (3), I, 1-12.

Abstract in Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 110-113.

1902 C

Notas sobre algunos mamíferos fósiles nuevos ó poco conocidos del valle de Tarija.

An. Mus. Nac. Buenos Aires (3), I, 225-261, pls. i-vii, 1 text-fig.

For abstract see Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 289-290.

Abstract in Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 110-113.

Ameghino, F.—Continued

1902 D

Sur le type primitif des molaires plexodontes des mammifères.

An. Mus. Nac. Buenos Aires (3), I, 419-439, pls. i-viii, 16 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 110-113.

1903 A

Los diprotodontes del orden de los plagiaulacoideos y el origen de los roedores y de los polimastodontes.

An. Mus. Nac. Buenos Aires (3), II, 81-102, 121 text-figs.

The paper concludes with a bibliography of 55 titles.

Reviews in Neues Jahrb. Min. Geol. Pal., 1905, I, Ref., 157-166; Rev. crit. Paléozool., VII, 184-187.

Jahresber. Anat. Entwickl. (N.F.), IX, pt. 3, 182-183.

1904 A

Recherches de morphologie phylogénétique sur les molaires supérieures des ongulés.

An. Mus. Nac. Buenos Aires (3), III, 1-541, 631 text-figs.

Abstracts in Rev. crit. Paléozool., VIII, 199-206; Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 454-468.

1904 B

Paleontología Argentina.

Pubs. Univ. de La Plata (República Argentina) No. 2, 1-79, 72 text-figs.

For an extensive notice of this paper by M. Schlosser see Neues Jahrb. Min. Geol. Pal., 1906, II, Ref., 124-131.

1904 C

Nuevas especies de mamíferos, cretáceos, y terciarios de la República Argentina.

An. Soc. Cien. Argent., VI-VIII, 1-142.

1905 A

La faceta articular inferior única del astrágalo de algunos mamíferos, no es un carácter primitivo.

An. Mus. Nac. Buenos Aires (3), V, 1-64, 69 text-figs.

For abstracts see Neues Jahrb. Min. Geol. Pal., 1907, I, Ref., 475-477; Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 168-169.

1905 B

Presencia de la perforación astragaliana en el tejón (*Meles tatus* Bodd.).

An. Mus. Nac. Buenos Aires (3), V, 193-201, 3 text-figs.

Ameghino, F.—Continued

1905 C

La perforación astragaliana en los mamíferos no es un carácter originariamente primitivo.

An. Mus. Nac. Buenos Aires (3), IV, 349-400, 98 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 169.

1906 A

Les formations sédimentaires du crétacé supérieur et du tertiaire de Patagonie.

An. Mus. Nac. Buenos Aires (3), VIII, 1-568, pls. 1-III, 358 text-figs.

Pages 3-18 are an extensive bibliography.

Abstract in Rev. crit. Paléozool., XI, 65-71.

Reviewed in Nature, LXXVII, 68.

1906 B

La perforación astragaliana en Priodontes *Canis (Chrysocyon)* y *Typothe-rum*.

An. Mus. Nac. Buenos Aires (3), VI, 1-19, 15 text-figs.

Abstracts in Rev. crit. Paléozool., X, 16.

1906 C

La perforación astragalienne sur quelques mammifères du miocène moyen de France.

An. Mus. Nac. Buenos Aires (3), VI, 41-58, 12 text-figs.

Abstract in Rev. crit. Paléozool., X, 16.

1906 D

La perforación astragaliana en el *Orycteropus* y el origen de los *Orycteropidae*.

An. Mus. Nac. Buenos Aires (3), VI, 59-95, 32 text-figs.

Abstract in Rev. crit. Paléozool., X, 16.

1906 E

Les édentés fossiles de France et d'Allemagne.

An. Mus. Nac. Buenos Aires (3), VI, 175-250, 61 text-figs.

Abstract in Rev. crit. Paléozool., X, 83-86.

1907 A

Notas sobre una pequeña colección de huesos de mamíferos procedentes de las grutas calcáreas de Iporanga en el Estado de São Paulo, Brazil.

Revista Mus. Paulista, VII, 59-124, 22 text-figs.

1908 A

Sobre dos esqueletos de mamíferos fósiles armados recientemente en el Museo Nacional.

An. Mus. Nac. Buenos Aires (3), IX, 35-43, 4 text-figs.

Ameghino, F.—Continued 1908 B

Notes sur les poissons du Patagonien.

An. Mus. Nac. Buenos Aires (3), ix, 477-497, 3 text-figs.

1909 A

El arco escapular de los edentados y monotremos y el origen reptiloide de estos dos grupos de mamíferos.

An. Mus. Nac. Buenos Aires (3), x, 1-91, 60 text-figs.

Note on by Lydekker, Nature, LXXVIII, 248. Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 159.

1909 B

Encore quelques mots sur les tatoues fossiles de France et d'Allemagne.

An. Mus. Nac. Buenos Aires (3), x (xvii), 93-110, 12 figs.

1911 A

L'avant-première dentition dans le tapir.

An. Mus. Nac. Buenos Aires (3), xiii, 1-30, pls. i-iv.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, i, Ref., 351-352; Rev. crit. Paléozoöl., xiv, 173.

1912 A

L'âge des formations sédimentaires tertiaires de l'Argentine en relation avec l'antiquité de l'homme.

An. Mus. Nac. Buenos Aires (3), xv, 45-75.

1912 B

L'âge des formations sédimentaires tertiaires de l'Argentine en relation avec l'antiquité de l'homme. Note supplémentaire.

An. Mus. Nac. Buenos Aires (3), xv, 169-179.

Ami, H. M. 1897 A

Contribution to the palæontology of the Post-pliocene deposits of the Ottawa Valley.

Ottawa Naturalist, xi, 20-26.

1898 A

The mastodon in western Ontario.

Science (n.s.), vii, 80.

Title wrongly quoted in Hay, O. P., 1902 A, page 19.

Abstract in Ottawa Naturalist, xi, 223.

1899 A

[On certain fossils.]

Summ. Rep. Geol. Surv. Canada, 1898 (1899), 174-182.

Ami, H. M.—Continued 1901 A

On a new ostracoderm (*Euphanerops longævus*) from the Upper Devonian of Scaumenac Bay, Province of Quebec, Canada.

Ottawa Naturalist, xv, 174.

An abstract of Woodward, A. S., 1900 B.

1901 B

Knoydart formation of Nova Scotia.

Bull. Geol. Soc. Amer., xii, 301-312, 1 text-fig.

1901 C

List of fossils to accompany report by Dr. R. W. Ells on the city of Ottawa map.

Rep. Geol. Surv. Canada for 1899, xii, G, 51-77.

The vertebrate fossils belong to the Pleistocene and are recorded on pages 53 and 54.

1901 D

Palæontological note.

Canad. Rec. Sci., viii, 331-332.

A review of Cope, E. D., 1894 G, on *Cyphornus*.

1902 A

Description of tracks from the fine-grained siliceous mudstones of the Knoydart formation (Eo-Devonian) of Antigonish County, Nova Scotia.

Trans. Nova Scot. Inst. Sci., x, 330-332, pl. ii. Abstract in Rev. crit. Paléozoöl., viii, 24.

Ammon, Ludwig von 1911 A

Schildkröten aus dem Regensburger Braunkohlenton.

Jahresber. Naturwiss. Ver. Regensburg, xii, Separ. Beil.-Bd., 1-35, pls. and text-figs.

A. O. U. 1910 A

Check-list of North American birds.

Prepared by a committee of the American Ornithologists' Union. Third edition (revised), 1-430 pages.

Anderson, C. 1925 A

The Australian fauna.

Roy. Soc. N. S. Wales, LIX, 15-24.

The bibliography contains 34 titles.

Anderson, Frank M. 1908 A

A further stratigraphic study in the Mount Diablo range of California.

Proc. Calif. Acad. Sci. (4), iii, 1-40.

1911 A

The Neocene deposits of Kern River, California, and the Temblor basin.

Proc. Calif. Acad. Sci. (4), iii, 73-148, pls. ii-xiii.

- Anderson, John** 1879 A
 Anatomical and zoological researches:
 Comprising an account of the zoological results of the two expeditions to western Yunnan in 1868 and 1875. London, 1878 (1879).
 Vol. 1, 357-564, pls xxv-xliv.
- Anderson, Netta C.** 1905 A
 A preliminary list of fossil mastodon and mammoth remains in Illinois and Iowa.
 Augustana Lib. Pub., No. 5, 1-40, 2 maps. Abstract in Neues Jahrb. Min. Geol. Pal., 1907, 1, Ref., 305.
- Anderson, Richard John** 1898 A
 Some notes on the manus of the dugong.
 Jour. Anat. Physiol. Lond., xxxii, (n.s. xii), 765-767.
- 1900 A
 The dentition of the seal.
 Rep. Brit. Assoc. Adv. Sci., 70th Meet., Bradford, 1900, 790-792.
- 1901 A
 The relationships of the premaxilla in bears.
 Rep. Brit. Assoc. Adv. Sci., 71st Meet., Glasgow, 681-682.
- 1902 A
 A note on the premaxilla in some mammals.
 Verh. internat. Zool.-Kongr., Berlin, in 1901, v, 1118-1127, 40 text-figs.
- 1902 B
 A note on the occipito-atloid articulation in some artetoids.
 Jour. Anat., Physiol. Lond., xxxvi, (n.s., xvi), 368-371, 15 figs.
- 1902 C
 Some questions with reference to occipital condyles.
 Brit. Med. Jour., 1902, ii, 785.
- 1903 A
 The connection of the anterior inferior angle of the parietal bone in Primates.
 Rep. Brit. Assoc. Adv. Sci., 72d Meet., Belfast, 1902, 651-652.
- 1904 A
 The premaxilla in Primates.
 C. R. Congr. internat. Med., xiv, Madrid, 1903, Anat., 147-154, 29 text-figs.
- 1905 A
 Some considerations respecting the parietal bone.
 Internat. Monatsschr. Anat. Physiol., xxi, 319-343, 83 text-figs.
- Anderson, Richard John—Cont'd.** 1908 A
 The thickness of the skull in Mammalia.
 Rep. Brit. Assoc. Adv. Sci., 77th Meet., Leicester, 1907, 546-547.
- 1909 A
 The maxilla and palatine in the Mammalia.
 Rep. Brit. Assoc. Adv. Sci., 78th Meet., Dublin, 1908, 744-745.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 29.
- 1909 B
 The epiphyses of long bones (chiefly in sauropsids).
 Rep. Brit. Assoc. Adv. Sci., 78th Meet., Dublin, 1908, 745-746.
- 1910 A
 The occipital bone in Primates.
 C. R. internat.-Congr. Méd., Budapest, 1909, xvi, sec. 1, 112-121, 7 figs.
 See also Internat. Monatsschr. Anat. Physiol., xxvii, 1910, 73-83.
- 1911 A
 The temporal bone in Primates.
 Rep. Brit. Assoc. Adv. Sci., 80th Meet., Sheffield, 1910, 639.
- 1912 A
 Some aspects of variation.
 Verh. internat. Zool.-Kongr., Gratz, 1910, viii, 914-921.
- 1912 B
 Note on the manus of a young Indian elephant.
 Rep. Brit. Assoc. Adv. Sci., 81st Meet., Portsmouth, 1911, 428.
- 1912 C
 Some points in manus and pes of Primates.
 Rep. Brit. Assoc. Adv. Sci., 81st Meet., Portsmouth, 1911, 429-430.
- 1912 D
 The mandible in Mammalia.
 Proc. internat. zool. Congr., Boston, 1907, vii, 250-253.
 Reprints may have been issued earlier.
- 1912 E
 The notes on the temporal bone in Mammalia (chiefly in Primates).
 Verh. internat. Zool.-Kongr., Gratz, 1910, viii, 907-914.
- 1913 A
 The skeletal elements of the extremities in Primates.
 Internat. Congr. Med., London, Anat., Embr., xvii, pt. 2, 123-129.

Anderson, Richard John—Cont'd

1914 A

Some notes on the skeletal elements of the mammalian limb.

Rep. Brit. Assoc. Adv. Sci., 83d Meet., Birmingham, 1913, 533-534.

Andres, A.

1900 A

Review of O. Jaekel: Über *Hybodus* (Jaekel, O., 1898 B).

Neues Jahrb. Min. Geol. Pal., 1900, II, Ref., 470-472.

1901 A

Abstracts of papers by Alban Stewart (Stewart, A., 1898 B; 1898 C; 1898 D).

Neues Jahrb. Min. Geol. Pal., 1901, I, Ref., 308-309.

1901 B

Review of R. H. Traquair: Report on fossil fishes collected by the Geological Survey of Scotland in the Silurian rocks of the south of Scotland. (Traquair, R. H., 1899 A.)

Neues Jahrb. Min. Geol. Pal., 1901, I, Ref., 505-508, 4 figs.

1901 C

Abstract of F. A. Lucas: Characters and relations of *Gallinuloides*, a fossil gallinaceous bird from the Green River shales of Wyoming. (Lucas, F. A., 1900 B.)

Neues Jahrb. Min. Geol. Pal., 1901, II, Ref., 474.

1903 A

Review of H. F. Osborn: Reconsideration of the evidences for a common dinosaur-avian stem in the Permian. (Osborn, H. F., 1900 G.)

Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 149-152.

1903 B

Abstract of O. P. Hay: Descriptions of some vertebrates of the Carboniferous age. (Hay, O. P., 1900 A.)

Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 442.

1904 A

Review of F. B. Loomis: Die Anatomie und die Verwandtschaft der Ganoid- und Knochenfische aus der Kreideformation von Kansas, U. S. A. (Loomis, F. B., 1900 A.)

Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 308-310.

Andres, A.—Continued

1904 B

Abstract of F. A. Lucas: A new fossil cyprinoid, *Leuciscus turneri*, from the Miocene of Nevada. (Lucas, F. A., 1900 F.)

Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 461.

Andres, Jos.

1924 A

Untersuchungen über das Auftreten und die weitere Entwicklung der embryonalen Hirnschädelknochen des Schweines.

Morphol. Jahrb., LIII, 259-303, 19 figs.

There is a bibliography of 25 titles.

Andrews, C. W.

1896 B

Note on the pelvis of *Cryptoclidus oxoniensis* (Phillips).

Geol. Mag. (4), III, 145-148, fig.

1901 A

Preliminary note on some recently discovered extinct vertebrates from Egypt.

Geol. Mag. (4), VIII, 400-409, 436-444, 8 figs.

1902 A

Preliminary note on some recently discovered vertebrates from Egypt (part 3).

Geol. Mag. (4), IX, 291-295.

1903 A

A preliminary notice of a land tortoise from the Upper Eocene of the Fayum, Egypt. With notes by H. J. Beadnell.

Survey Dep't, Public Works Ministry, 1-10 pages. Cairo; National Printing Dep't.

1903 B

On the evolution of the Proboscidea.

Philos. Trans. Roy. Soc. Lond., CCXVI, B, 99-118, text-figs. 1-17.

Abstracts in Ann. Mag. Nat. Hist. (7), XI, 527-528; Geol. Mag. (4), X, 225; Neues Jahrb. Min. Geol. Pal., 1904, II, Ref., 318-320; Geol. Centralbl., V, 327; Proc. Roy. Soc. London, LXXI, 443-444; Jahresber. Anat. Entwickl. (N.F.), IX, pt. 3, 185-186.

1903 C

Some suggestions on extinction.

Geol. Mag. (4), X, 1-2.

1903 D

Diagram of the skull of *Mastodon angustidens*.

Rep. Brit. Assoc. Adv. Sci., 72d Meet., Belfast, 1902, 654.

- Andrews, C. W.—Continued 1903 E**
 On the evolution of the Proboscidea.
 Geol. Mag. (4), x, 225-226.
 Originally published in Proc. Roy. Soc. Lond., LXXI, 443-444.
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- 1904 A**
 Further notes on the mammals of the Eocene of Egypt.
 Geol. Mag. (5), i, 109-115, 2 text-figs; 157-162, pl. vi; 211-215.
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- 1906 A**
 A descriptive catalogue of the Tertiary Vertebrata of the Fayum, Egypt.
 Pages i-xxvi+1-324, with frontispiece, pls i-xxvi, and 98 text-figs., 4to., London.
 Résumés in Neues Jahrb. Min. Geol. Pal., 1907, II, 307-317; Rev. crit. Paléozool., XI, 5-7; Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 165-166; Nature, LXXIV, 175-178; Sci. Progress, I, 498; Geol. Mag. (5), III, 266-269.
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- 1907 A**
 Notes on the cervical vertebra of a zeuglodon from the Barton Clay of Barton Cliff (Hampshire).
 Quart. Jour. Geol. Soc., LXIII, 124-127, 1 text-fig.
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- 1907 B**
 Notes on the osteology of *Ophthalmosaurus icenicus* Seeley, an ichthyosaurian reptile from the Oxford Clay of Peterborough.
 Geol. Mag. (5), IV, 202-208, 5 text-figs.
 For correction of some errors in this paper see Geol. Mag., V, 1908, 96.
 Abstracts in Geol. Centralbl., x, 44; Sci. Progress, II, 516; Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 167.
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- 1907 C**
 The recently discovered Tertiary Vertebrata of Egypt.
 Rep. Smithsonian. Instn., 1906 (1907), 295-307.
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- 1908 A**
 On the skull, mandible, and mastication of *Palaeomastodon*, with some remarks on the tooth changes in the Proboscidea.
 Philos. Trans. Roy. Soc. Lond., CXCIX, 393-407, pls. xxi-xxxii, text-figs. 1, 2.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 134-136; Rev. crit. Paléozool., XIII, 69, 70; Geol. Centralbl., XII, 149; Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 35; Sci. Progress, III, 456.
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- 1908 B**
 Note on a model of the skull and mandible of *Proseuglodon atrox* Andrews.
 Geol. Mag. (5), V, 209-212, pl. ix.
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- Andrews, C. W.—Continued 1908 C**
 Model of the skull and mandible of *Proseuglodon atrox* And.
 Proc. Zool. Soc. Lond., 1908, 203.
 A very brief note.
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- 1908 D**
 A guide to the elephants (recent and fossil) exhibited in the department of geology and palaeontology in the British Museum (Natural History).
 8vo., pages 1-46, 31 text-figs.
 The author discusses the ancestral history of the Proboscidea.
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- 1909 A**
 Note on the mandible of a new species of *Tetrabelodon* from the Loup Fork beds of Kansas.
 Geol. Mag. (5), VI, 347-349, figs. A-C.
 Abstracts in Geol. Centralbl., XIII, 396; Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 138; Rev. crit. Paléozool., XIV, 7; Sci. Progress, IV, 662.
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- 1909 B**
 On some new Plesiosaurs from the Oxford Clay of Peterborough.
 Ann. Mag. Nat. Hist. (8), IV, 418-429, 7 figs.
 Abstract in Sci. Progress, IV, 660.
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- 1909 C**
 The systematic position of *Mærittherium*.
 Nature, LXXXI, 305.
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- 1910 A**
 A descriptive catalogue of the marine reptiles of the Oxford Clay. Based on the Leeds collection in the British Museum (Natural History), London, Part I.
 Pages i-xxiv+1-205, with frontispiece, pls. i-x and 94 text-figs., 4to., London.
 Abstracts in Science (2), XXXV, 84; Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 314-316; Sci. Progress, V, 684-685; Rev. crit. Paléozool., XV, 29-31; Geol. Centralbl., XVIII, 327-328; Geol. Mag. (5), VII, 564-567.
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- 1911 A**
 On the structure of the roof of the skull and of the mandible of *Peloncostes*, with some remarks on the plesiosaurian mandible generally.
 Geol. Mag. (5), VIII, 160-164, 2 text-figs.
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- 1911 B**
 Description of a new plesiosaur (*Plesiosaurus capensis*, sp. nov.) from the Uitenhage beds of Cape Colony.
 Ann. S. African Mus., VII, 309-322, pl. xviii, 4 text-figs.

- Andrews, C. W.—Continued** 1911 C
Origin of mammals.
Nature, LXXXVIII, 294.
- 1912 A
On the importance of Africa in
vertebrate palaeontology.
Geol. Mag. (5), ix, 454-455.
- 1913 A
A descriptive catalogue of the ma-
rine reptiles of the Oxford Clay. Based
on the Leeds collection in the British
Museum (Natural History), London.
Part II.
Pages i-xxiv+1-206, with frontispiece, pls.
i-xiii, 73 text-figs., 4to., London.
Abstracts in Geol. Mag. (5), x, 219-223;
Science (2), xxxv, 84; Neues Jahrb. Min.
Geol. Pal., 1913, ii, Ref., 514-518. Rev. crit.
Palaeozool., xvii, 134-138.
- 1913 B
On the skull and part of the skeleton
of a crocodile from the Middle Pur-
beck of Swanage.
Ann. Mag. Nat. Hist. (8), xi, 485-494, pl.
viii, 2 text-figs.
- 1915 A
Note on a mounted skeleton of
Ophthalmosaurus icenicus Seeley.
Geol. Mag. (6), ii, 145-146, pl. v.
Abstract in Geol. Zentralbl., xxvi, 315.
- 1916 A
Note on a mounted skeleton of a
"gazelle-camel," *Stenomylus hitch-
cocki* Loomis.
Geol. Mag. (6), iii, 1-2, pl. i.
Abstracts in Rev. crit. Palaeozool., xxi,
123; Geol. Zentralbl., xxvi, 379.
- 1916 B
Note on the sternum of a large
carinate bird from the (?) Eocene of
southern Nigeria.
Proc. Zool. Soc. Lond., 1916, 519-524, figs.
1-4.
- 1916 C
Review of W. D. Matthew's "Mam-
moths and mastodons."
Ann. Mag. Nat. Hist. (6), iii, 128.
- 1916 D
Discussion on the "Biologia Cen-
trali-Americana."
Proc. Zool. Soc. Lond., 1916, 548-549.
- 1917 A
A gigantic Eocene bird.
Geol. Mag. (6), iv, 469-470. A review of
Matthew and Granger on *Diatryma*.
Abstract in Geol. Zentralbl., xxviii, 445.
- Andrews, C. W.—Continued** 1919 A
A description of a new species of
zeuglodont and of leathery turtle from
the Eocene of Southern Nigeria.
Proc. Zool. Soc. Lond., 1919, 309-319, pls.
i, ii, 3 text-figs.
- 1921 A
On a new chelonian from the Kim-
meridge Clay of Swindon.
Ann. Mag. Nat. Hist. (9), vii, 145-153,
3 figs.
- 1921 B
Note on a skull of *Dinotherium gi-
ganteum* in the British Museum.
Proc. Zool. Soc. Lond., 1921, 525-534, 4 figs.
- 1921 C
On some remains of a theropodous
dinosaur from the Lower Lias of Bar-
row-on-Soar.
Ann. Mag. Nat. Hist. (9), viii, 570-576,
2 figs.
- 1922 A
Description of a new plesiosaur from
the Weald Clay of Berwick (Sussex).
Quart. Jour. Geol. Soc., LXXVIII, 285-298,
pls. xiv, xv, 2 figs.
- 1922 B
A guide to the elephants (recent
and fossil) exhibited in the depart-
ment of geology and palaeontology in
the British Museum (Natural His-
tory).
Pages 1-48, 30 figs.
- 1923 A
Note on the skulls from which the
endocranial casts described by Dr.
Dart were taken.
Proc. Zool. Soc. Lond., 1923, 648-652, text-
figs. 22-24.
- 1923 B
Exhibition of a phalangeal bone of
one of the *Ancylopoda* from Uganda.
Proc. Zool. Soc. Lond., 1923, 1095.
- 1923 C
Note on the skull and mandible of
a Siberian mammoth exhibited in the
British Museum.
Ann. Mag. Nat. Hist. (9), xii, 322-325,
544, pl. x.
- 1924 A
On some similarities in the evolu-
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Animal life in loess deposits near Alton, Illinois, with descriptions of two new varieties of land shells from the same deposit.
Nautilus, xxxiv, 61-66.
- 1921 A
Baker's "Life of the Pleistocene."
Auk, xxxviii, 155-156.
- Balch, Edwin Swift** 1917 A
Early man in America.
Proc. Amer. Philos. Soc., lvi, 472-483.
- Baldwin, S. Prentiss** 1894 A
Pleistocene history of the Champlain Valley.
Amer. Geologist, xiii, 170-184, 2 figs.
- Ballard, F. A.** 1880 A
Mastodon remains found in Jackson County, Missouri.
Kansas City Rev. Sci. Indust., iii, 642-644, 1 fig.
- Ballerstedt, M.** 1914 A
Bemerkungen zu den älteren Berichten über Saurierfährten im Wealdensandstein und Behandlung einer neuen, aus 5 Fussabdrücken bestehenden Spur.
Centrabl. Min., Geol., Pal., 1914, 48-64, 4 text-figs.

- Ballerstedt, M.**—Continued 1921 A
Über das Plastron der Schildkröten des Keupers und die Gestalt der Panzerschale von *Proganochelys quenstedtii* Baur nach dem Tübinger Fossil.
Palaeont. Zeitschr., iv, 64-74, 3 figs.
Abstract in Geol. Centralbl., xxxii, 476.
- Ballou, W. H.** 1897 A
Strange creatures of the past, Gigantic saurians of the reptilian age.
Cent. Mag. (n. s.), xxxiii (o. s. lv), 1897, 15-23, with reproductions of figures by Charles Knight.
The facts in this paper were communicated by Prof. E. D. Cope.
- 1898 A
The serpent-like sea saurians.
Pop. Sci. Month., LIII, 209-225, 2 pls., 6 text-figs.
- Ballowitz, E.** 1892 A
Das Schmelzorgan der Edentaten, seine Ausbildung im Embryo und die Persistenz seines Keimrandes bei dem erwachsenen Thier.
Arch. mikr Anat. Bonn., xi, 133-156, pls. vi, vii.
- Bancroft, Hubert Howe** 1875 A
The native races of the Pacific states of North America. Vol. IV: Antiquities.
New York. 8vo., i-vii+1-807 pages, with numerous illustrations.
- Bangs, Outram** 1896 A
A review of the weasels of eastern North America.
Proc. Biol. Soc. Wash., x, 1-24, pls. i-iii.
- 1896 B
The Florida deer.
Proc. Biol. Soc., Wash., x, 25-28.
- 1896 C
The skunks of the genus *Mephitis* of eastern North America.
Proc. Biol. Soc. Wash., x, 139-144.
- 1896 D
A review of the squirrels of eastern North America.
Proc. Biol. Soc. Wash., x, 145-167, pls. viii-x, text-figs. 29-32.
- 1897 A
Notes on the lynxes of eastern North America, with descriptions of two new species.
Proc. Biol. Soc. Wash., xi, 47-51, pl. ii.
- Bangs, Outram**—Continued 1898 A
The land mammals of peninsular Florida and the coast region of Georgia.
Proc. Bost. Soc. Nat. Hist., xxviii, 157-235, with map and text-figs.
- Bannister, Henry M.** 1870 A
Geology of DeKalb, Kane and DuPage Counties [Illinois].
Geol. Surv. Ill., iv, 111-125.
- Baraldi, G.** 1877 A
Omologia fra gli organi accessori della respirazione dei pesci, etc.
Atti Soc. Toscano Sci. Nat., iii, 1-56, pl. v.
- Barbour, Carrie Adeline** 1898 A
Some methods of collecting, preparing and mounting fossils.
Proc. Neb. Acad. Sci., for 1896, 258-264, 1 text-fig.
- Barbour, Erwin H.** 1892 A
On a new order of gigantic fossils.
Univ. Neb. Stud., i, 301-323, pls. i-v, 18 text-figs.
- 1894 A
Additional notes on the new fossil *Daimonelix*. Its mode of occurrence; its gross and minute structure.
Univ. Neb. Stud., ii, 1-16, 12 pls.
- 1896 A
Progress made in the study of *Daemonelix*.
Proc. Neb. Acad. Sci., 1894-1895, 24-28, 18 text-figs.
- 1903 A
Report of the State Geologist.
Neb. Geol. Surv., i, 1-258, 12 pls., 163 text-figs.
- 1903 B
Present knowledge of the distribution of *Daimonelix*.
Science (n.s.), xviii, 504-505.
- 1905 A
Notice of a new fossil mammal from Sioux County, Nebraska.
Neb. Geol. Surv., ii, pt. 3, 1-4, 1 plate.
- 1905 B
A new Miocene artiodactyl.
Science (n.s.), xxii, 797-798, 1 text-fig.
Abstract in Geol. Centralbl., viii, 373.
- 1906 A
The skull of *Syndyoceras*.
Science (n.s.), xxiii, 288-289.
- 1906 B
The skulls of *Syndyoceras* and *Protoceras*.
Science (n.s.), xxiii, 623.

- Barbour, Erwin H.—Continued 1906 C**
 Notice of a new Miocene rhinoceros,
Diceratherium arikarense.
 Science (n.s.), xxiv, 780-781, 2 text-figs.
- 1906 D
 Notice of a new fossil rhinoceros
 from Sioux County, Nebraska.
 Neb. Geol. Surv., II, 311-318, 5 text-figs.
 Describes *Diceratherium arikarense*.
- 1908 A
 The skull of *Moropus*.
 Neb. Geol. Surv., III, 207-216, pls. i, ii,
 5 text-figs.
- 1908 B
 Skeletal parts of *Moropus*.
 Neb. Geol. Surv., III, 217-222, pls. i-xi,
 1 text-fig.
- 1909 A
 A slab from the bone beds of Sioux
 County.
 Neb. Geol. Surv., III, 249-252, pl. i.
- 1909 B
 Restoration of *Diceratherium arika-*
rense; a new form of panel mount.
 Neb. Geol. Surv., III, 253-258, pl. i.
- 1912 A
 Skull of the giant hog *Elothierium*.
 A panel mount.
 Neb. Geol. Surv., IV, 50-51, pl. i.
- 1913 A
 A tooth of the Columbian mammoth.
 Neb. Geol. Surv., IV, 58-65, pls. i, ii, 1
 text-fig.
- 1914 A
 A new fossil horse, *Hypohippus mat-*
thewi.
 Neb. Geol. Surv., IV, 169-173, pls. i, ii, 1
 text-fig.
 See also Univ. [Neb.] Studies, xiv, 197-
 199, pl. xiv.
- 1914 B
 Mammalian fossils from Devil's
 Gulch.
 Neb. Geol. Surv., IV, 177-190, pls. i-xiii.
 See also Univ. [Neb.] Studies, xiv, 185-197,
 pls. i-xiii.
- 1914 C
 A new longirostral mastodon from
 Cherry County, Nebraska.
 Neb. Geol. Surv., IV, 213-222, pls. i-vi, 6
 text-figs.
- 1915 A
 A new longirostral mastodon. *Tet-*
rabelodon hulli. Preliminary notice.
 Amer. Jour. Sci. (4), xxxix, 87-92, 2 figs.
- Barbour, Erwin H.—Continued 1915 B**
 A new Nebraska mammoth, *Elephas*
hayi.
 Amer. Jour. Sci. (4), xli, 129-134, 5 text-
 figs.
 Abstract in Geol. Zentralbl., xxv, 271.
- 1915 C
 A new mount of the fossil tortoise,
Testudo orthopygia.
 Neb. Geol. Surv., IV, 335-336, 2 text-figs.
- 1916 A
 A giant Nebraska bear, *Dinaccto-*
therium merriami.
 Neb. Geol. Surv., IV, 349-353, 6 figs.
- 1916 B
 Evidence of the ligamentum teres in
 Nebraska Proboscidea.
 Amer. Jour. Sci. (4), xli, 251-254, 6 figs.
 Abstract in Geol. Zentralbl., xxv, 270.
- 1916 C
 A new longirostral mastodon from
 Nebraska, *Tetrabelodon osborni*.
 Amer. Jour. Sci. (4), xli, 522-529, 4 figs.
 Abstract in Geol. Zentralbl., xxv, 270.
- 1917 A
 The Boyd County mastodon *Tetra-*
belodon osborni.
 Neb. Geol. Surv., IV, 499-512, 12 figs.
- 1924 A
 A preliminary report on the Ne-
 braska State Museum.
 Bull. Neb. State Mus., I, No. 1, 1-19, 6
 figs.
- 1925 A
 A new primitive mammoth from Ne-
 braska.
 Bull. Neb. State Mus., I, No. 2, 21-24,
 figs. 7-12.
- 1925 B
Prosthennops ziphodonticus sp. nov.
 A new fossil peccary from Nebraska.
 Bull. Neb. State Mus., I, No. 3, 25-31,
 figs. 12, 13.
- 1925 C
Tetrabelodon abeli sp. nov.
 Bull. Neb. State Mus., I, No. 9, 91-94,
 figs. 52-57.
- 1925 D
 Skeletal parts of the Columbian
 mammoth, *Elephas maibeni* sp. nov.
 Bull. Neb. State Mus., I, No. 10, 95-118,
 figs. 58-67.
- 1926 A
Archidiskodon maibeni.
 Bull. Neb. State Mus., I, 119-122, fig. 88.

- Barbour, Erwin H.**—Continued 1927 A
Preliminary notice of a new proboscidean, *Amebelodon fricki* gen. et sp. nov.
Bull. Neb. State Mus., I, No. 12, 121-124, figs. 89-91.
- , and **Harold J. Cook** 1914 A
Two new fossil dogs of the genus *Cynarctus* from Nebraska.
Neb. Geol. Surv., IV, 225-227, pl. i, 1 text-fig.
- 1914 B
A new saber-toothed cat from Nebraska.
Neb. Geol. Surv., IV, 225-238, pl. i, 4 text-figs.
- 1917 A
Notes on the skull of *Metoreodon*.
Neb. Geol. Surv., VII, pt. 18, 165-172, 8 text-figs.
- 1917 B
Skull of *Ætiurodon platyrhinus* sp. nov.
Neb. Geol. Surv. VII, pt. 19, 173-180, 11 text-figs.
- Barbour, Thomas** 1916 A
Remarks upon Matthews' "Climate and Evolution."
Ann. N. Y. Acad. Sci. XXVII, 1-15. Followed by supplementary note by W. D. Matthew.
- 1926 A
A note on Tertiary alligators.
Copeia, No. 151, 109-111.
- , and **G. M. Allen** 1922 A
The white-tailed deer of eastern United States.
Jour. Mamm., III, 65-78, pls. IV, V. There is a bibliography of 15 titles.
- Bárcena, Mariano** 1882 A
El Museo nacional de Mexico; seccion de geología y paleontología.
Revista cient. Mexicana, I, No. 20, 20.
- Bardeen, Charles B.** 1905 A
The development of the thoracic vertebræ in man.
Amer. Jour. Anat., IV, 163-174, pls. i-vii. There is a bibliography of 29 titles.
- 1905 B
Studies of the development of the human skeleton.
Amer. Jour. Anat., IV, 265-302, pls. i-xii. There is a bibliography of 74 titles. The paper treats of the spinal column and the posterior limbs.
- Bardeleben, K.** 1885 A
Zur Entwicklung der Fusswurzel.
Jena. Zeitschr. Naturwiss. Suppl., XIX, 27-32.
- 1885 B
Zur Morphologie des Hand- und Fusskelets.
Jena. Zeitschr. Naturwiss. Suppl., XIX, 84-88.
- 1885 C
Ueber neue Bestandteile der Hand- und Fusswurzel der Säugethiere, sowie die normale Anlage von Rudimenten "überzähliger" Finger und Zehen beim Menschen.
Jena. Zeitschr. Naturwiss. Suppl., XIX, 149-166.
- 1889 A
Praepollex und praehallux.
Anat. Anz., IV, Ergänzungs., 106-112, 6 text-figs.
- 1889 B
On the praepollex and praehallux, with observations on the carpus of *Theriodesmus phylarchus*.
Proc. Zool. Soc. Lond., 1889, 259-262, pl. XXX.
- 1893 A
Knochen, Bänder, Muskeln.
Anat. Hefte, Ergebn., II, 156-178. A review of the literature. A list of 75 works on the subject is included.
- 1896 A
Knochen, Bänder, Muskeln.
Anat. Hefte, Ergebn., V, 95-126. A review of the literature. There is a bibliography of 318 titles.
- 1901 A
Skelettsystem (ausser Schädel und Visceralskelett).
Anat. Hefte, Ergebn., X, 1-114. This paper is preceded by a bibliography of 290 titles.
- 1903 A
Skelettsystem ausser Kopf (einschliesslich Gelenke und Gelenkmechanik).
Anat. Hefte, Ergebn., XII, 3-41. A résumé of progress; preceded by a bibliography of 189 titles.
- 1904 A
Skelet ausser Kopf (einschliesslich Gelenke und Gelenkmechanik). Literatur 1903.
Anat. Hefte, Ergebn., XIII, 95-114. This résumé of progress is preceded by a bibliography of 70 titles.

- Bardleben, K.—Continued** 1905 A
 Die Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., xxvii, 16.
 A brief note, followed by brief discussions.
 See also C. R. Assoc. Anat., 1905, vii, 140;
 Verh. Anat. Ges., xix, 16-17.
- 1905 B
 Die Nicht-Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., xxvii, 138-139
- 1905 C
 Über den Unterkiefer der Säugetiere.
 Sitz.-Ber. Ges. naturf. Freunde Berlin, 1905, 156-159.
- 1905 D
 Spezielle Anatomie und Entwicklungsgeschichte des Menschen und der Wirbeltiere. IV: Skeletsystem. B. Chorda dorsalis, Wirbelsäule, Rippen, Sternum.
 Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 92-101.
 On page 92 is presented a list of the papers reviewed on the succeeding pages.
- 1905 E
 Der Unterkiefer der Säugetiere, besonders des Menschen.
 Anat. Anz., xxvi, 104-111.
- 1906 A
 Skelet (ausser Schädel und Viszeral-skelet). 1904 und 1905.
 Anat. Hefte, Ergebn., xv, 119-151.
 This review is preceded by a bibliography of 118 titles.
- 1907 A
 Zur vergleichenden Anatomie, besonders Paläontologie des Unterkiefers der Wirbeltiere.
 Anat. Anz., Ergänzungsh., xxx, 34-37.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 37.
- 1907 B
 Skelet (ausser Kopf) und Muskeln.
 Anat. Hefte, Ergebn., xvi, 141-165.
 The bibliography consists of 69 titles.
- 1909 A
 Ueber bilaterale Asymmetrie beim Menschen und bei höheren Tieren.
 Anat. Anz., Ergänzungsh., xxxiv, 2-72.
 The bibliography is recorded in pages 63-72.
- Bardenfleth, K. S.** 1913 A
 Notes on the form of the carnassial tooth of carnivorous mammals. (With a critical sketch of the most important tooth-cusp theories.)
 Vid. Medd. nat. For. Kjöbenhavn., lxxv, 67-111, 15 text-figs.
 With a list of about 50 papers.
 Abstracts in Sci. Progress, viii, 630; Nature, xxi, 595.
- Barkas, T. P.** 1869 A
Climaxodus ovatus and *Diplodus*.
 Geol. Mag., vi, 42.
- 1869 B
 Unusual forms of *Ctenoptychius*.
 Geol. Mag., vi, 43, 2 text-figs.
- Barkas, W. J.** 1874 B
Hybodus, a Coal-measure fish.
 Geol. Mag. (n.s.), i, 163-168, 239, 6 text-figs.
- 1874 C
Hybodus, a Coal-measure fish.
 Geol. Mag. (n.s.), i, 287-288.
- 1874 D
 List of Palæozoic fishes.
 Geol. Mag. (n.s.), i, 542-553.
- Barney, R. L., and B. J. Anson** 1923 A
 Life history and ecology of the orange-spotted sunfish, *Lepomis humilis*.
 Rep. U. S. Comm. Fish., 1922 (1923), app. 15 (Doc. 938), 1-16, 7 figs
- Barrell, Joseph** 1907 A
 Origin and significance of the Mauch Chunk shale.
 Bull. Geol. Soc. Amer., xvii, 449-476, pls. xlix-lx, 1 text-fig.
- 1915 A
 Factors in movements of the strand line and their results on the Pleistocene and post-Pleistocene.
 Amer. Jour. Sci. (4), xl, 1-22.
 Abstract in Jour. Wash. Acad. Sci., v, 413-420.
- 1915 B
 Influence of Silurian-Devonian climates on the rise of air-breathing vertebrates.
 Bull. Geol. Soc. Amer., xxvii, 387-436, 2 text-figs.
- 1917 A
 Probable relations of climatic change to the origin of the Tertiary ape-man.
 Scient. Monthly, iv, 16-26.

- Barrett-Hamilton, G. E. H.** 1897 A
The Pacific walrus (*Trichechus obesus*).
Proc. Zool. Soc. Lond., 1897, 206-267.
This refers to *Odobenus divergens*.
- Barrows, Walter B.** 1885 A
Natural history of birds: Hawks, owls.
Stand. Nat. Hist., III, 260-248, figs. 124-157.
- Barton, Benjamin Smith** 1805 A
Letter to M. Lacépède of Paris, on the natural history of America.
Tilloch's Philos. Mag., XXII, 97-193, 204-211.
- 1805 B
[On the *Megalonyx* of Mr. Jefferson.]
Phila. Med., Phys. Jour., I, pt. I, 152-154.
- 1805 C
On the mammoths found at Big Bone Lick.
Phila. Med., Phys. Jour., I, pt. I, 154-159.
- 1805 D
[Remarks on a communication from Mr. John Heckewelder regarding *Megalonyx*.]
Phila. Med., Phys. Jour., I, pt. II, 164-165.
- 1806 A
Facts, observations, and conjectures relative to the elephantine bones (of different species) that are found in various parts of North America. In a letter from the Editor to Mr. G. Cuvier, of Paris.
Phila. Med., Phys. Jour. First supplement, 22-24, with notes on this letter, 34-35.
Forms a part of the *Archæologia Americana*.
- 1806 B
(Regarding specimens of mammoth).
Phila. Med., Phys. Jour., II, pt. I, 157.
- 1806 C
[Remarks on skull of peccary from saltpeter cave in Kentucky.]
Phila. Med., Phys. Jour., II, pt. I, 158.
- 1810 A
[Letter from Doctor Barton to Thomas Jefferson.]
The Portfolio, Philadelphia, (3) IV, 340-344.
The writer discusses the generic position of the mastodon of Ohio.
- 1814 A
Archæologia Americanae telluris collectanea et specimina.
Part I, Phila., 1814, 8vo., i-viii, 10-64.
- Bassani, Francesco** 1890 A
Colonna vertebrale di *Oxyrhina mantelli* Agassiz, scoperta nel Calcare Senoniano di Castellavazzo nel Bellunese.
Mem. Soc. ital. Sci. (3), VII, Mem. 1, 1-6, 3 pls.
This paper may have been issued in 1888 as a separate.
- 1891 A
Contributo alla paleontologia della Sardegna ittioliti miocenici.
Atti Accad. Sci. Napoli (2), IV, No. 3, i-viii+1-60, pls. i, ii.
A bibliography occupies pages iii-viii.
There are full synonymies of the species.
- 1895 A
Avanzi di *Carcharodon auriculatus* scoperti nel Calcare eocenico di Valle Gallina presso Avesa (provincia di Verona).
Mem. Accad. Agric., Verona, LXXI, 1-13, 1 plate.
Abstract in Neues Jahrb. Min. Geol. Pal., Ref., 527.
- 1899 A
Abstract in Geol. Mag. (3), VIII, 476.
- 1901 A
Il *Notidanus griscus* Cuvier nel Pliocene della Basilicata e di altre regione italiane e straniere.
Rend. Accad. Sci., Napoli (3), VII, 175-180, 1 fig.
Brief notice in Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 315.
- 1905 A
La ittiofauna delle argille marnose plioceniche di Taranto e di Nardo (Terra d'Otranto).
Atti Accad. Sci. Napoli (2), XII, No. 3, 1-59, 1-iii.
The bibliography is recorded on pages 3 to 8.
- Bassler, Ray S.** 1919 A
Report on work in paleontology.
Rep. U. S. Nat. Mus., 1918 (1919), 60-62.
- Bassoli, G. G.** 1906 A
Otoliti fossili terziari dell' Emilia.
Riv. ital. Pal., XII, 36-58, pls. i, ii.
Citations of the literature in foot-notes.
- Bate, Dorothea M. A.** 1914 A
On remains of a gigantic land tortoise (*Testudo gymnesicus* n. sp.) from the Pleistocene of Menorca.
Geol. Mag. (6), I, 100-107, 2 text-figs.

- Batelli, Andrea** 1880 A
Beiträge zur Kenntniss des Baues der Reptilien.
Arch. mikr. Anat. Bonn, xvii, 346-361, pls. xxxiv, xxxv.
- Bateson, W.** 1892 A
On numerical variation in teeth, with a conception of homology.
Proc. Zool. Soc. Lond., 1892, 102-115, 6 figs.
- Bauer, Franz** 1901 A
Ichthyosaurus bambergensis spec. nov. Beschreibung einer neuen *Ichthyosaurus*-Art aus dem oberen Lias von Geisfeld, nebst einigen vergleichend-anatomischen Bemerkungen über den Schultergürtel.
Ber. naturf. Ges. Bamberg, xviii, 1-56, pls. i, ii.
- Baum, Hermann** 1920 A
Anatomische Betrachtungen über die Zähne des Säugetiere.
Verh. Anat. Ges., xxix, 17-27, figs. 1-19.
- Baumgarten, [Hans]** 1892 A
Beiträge zur Entwicklungsgeschichte der Gehörknöchelchen.
Arch. mikr. Anat. Bonn., xl, 512-530, pl. xxv.
- Baur, Georg** 1885 L
Preliminary note on the origin of limbs.
Amer. Naturalist, xix, 1112.
- 1885 M
Einige Bemerkungen über die Ossification der "langen" Knochen.
Zool. Anz., viii, 580-581.
- 1885 N
Zum Tarsus der Vögel.
Zool. Anz., viii, 488.
- 1886 N
Das Trapezium der Cameliden.
Morphol. Jahrb., vii, 117-118.
- 1886 O
The intercentrum of living Reptilia.
Amer. Naturalist, xx, 174-175.
- 1887 G
Remarks on *Hyperodapedon*, etc.
Quart. Jour. Geol. Soc., xliii, 694.
- 1887 H
Ueber das Quadratum der Säugethiere.
Sitz.-Ber. Ges. Morphol. Physiol. München, ii, 45-57.
Same as Baur, G., 1886 A. See also Quart. Jour. Micr. Sci. (n.s.), xxviii, 169-180.
- Baur, Georg—Continued** 1888 A
Dermochelys, *Dermatochelys* oder *Sphargis*.
Zool. Anz., xi, 44-45.
- 1889 L
Palæohatteria Credner and the *Proganosauria*.
Amer. Jour. Sci. (3), xxxvii, 310-313.
- 1890 F
Kadaliosaurus priscus Credner, a new reptile from the Lower Permian of Saxony.
Amer. Jour. Sci. (3), xxxix, 156-158.
- 1891 E
On the relations of *Carettochelys* Ramsay.
Amer. Naturalist, 631-638.
- 1891 F
Intercalation of vertebræ.
Jour. Morphol; iv, 331-336.
- 1892 D
Der Carpus der Schildkröten.
Anat. Anz., vii, 206-211, figs. 1-4.
- 1893 D
Ueber Rippen und ähnliche Gebilde und deren Nomenclatur.
Anat. Anz., ix, 116-120.
13 titles in foot-notes.
- 1894 B
Ueber den ProAtlas einer Schildkröte (*Platypeltis spinifer* Les.).
Anat. Anz., x, 349-354, figs. 1-6
The bibliography includes 30 titles.
- 1896 D
Der Schädel einer neuen grossen Schildkröte (*Adelochelys*) aus dem Zoologischen Museum in München.
Anat. Anz., xii, 314-319, 4 figs.
- 1896 E
Nachtrag zu meiner Mitteilung über die Morphologie des Unterkiefers der Reptilien.
Anat. Anz., xi, 569.
Relates to Baur G., 1895 D.
- 1896 F
Historische Bemerkungen.
Internat. Monatsschr. Anat. Physiol., iii, Heft. 1.
Reviews Paul Gervais' "Théorie du squelette humain," etc., 1886.
- 1897 D
Remarks on the question of intercalation of vertebræ.
Zool. Bull., i, 41-55.
- 1897 E
Amphibia or Batrachia.
Science (n.s.), vi, 170-174.

- Baur, Georg**—Continued 1897 F
Amphibia or Batrachia.
Science (n.s.), vi, 372.
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- 1898 A
 Review of G. A. Boulenger: "On a nothosaurian reptile," etc.
Neues Jahrb. Min. Geol. Pal., 1898, i, Ref., 146-149.
- Bayer, Franz** 1897 A
Sur le tentorium osseum chez les mammifères.
Bibl. Anat., v, 147-150, pls. i, ii.
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- 1908 A
 Neue Reste der Gattung *Portheus* Cope (*Xiphactinus* Leidy) aus der böhmischen Kreide.
Trans. Bohem. Acad. Sci., xvii, art. 19, 1-11, 1 pl., 4 text-figs.
Rozpr. Cheské Ak Frant. Jos., 1908 (12), 1 pl.
 Title and text in Boheman.
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- 1909 A
 Neue Reste von *Portheus* Cope (*Xiphactinus* Leidy) aus dem böhmischen Turon.
Bull. internat. Acad. Sci., Prague, xiv, 98-103, pl., 4 text-figs.
- Bayley, W. S., H. B. Kummel, and R. D. Salisbury** 1914 A
 Description of the Raritan [N. J.] quadrangle.
Folio No. 191, U. S. Geol. Surv., 1-33, 5 maps, 21 text-figs.
- Bean, Barton A.** 1904 A
 Notes on an adult goblin shark (*Mitsukurina owstoni*) of Japan.
Proc. U. S. Nat. Mus., xxviii, 815-818, 2 text-figs.
- Beard, J. Carter** 1901 A
 Three characteristic types of American dinosaurs.
Scient. Amer. LXXXIV, 184-185, one figure.
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- 1901 B
 Something about ancient American saurians.
Scient. Amer., LXXXV, 267, one figure.
 A brief note in *Geol. Centralbl.*, iii, 118
- Beasley, Walter L.** 1903 A
 Evolution of the horse.
Scient. Amer., LXXXVIII, 451-452, 4 text-figs.
-
- 1903 B
 A remarkable fossil discovery.
Scient. Amer., LXXXIX, 87, 3 text-figs.
 Abstract in *Geol. Centralbl.*, ix, 400.
- Beasley, Walter L.**—Continued 1907 A
Naosaurus: A fossil wonder.
Scient. Amer., xcvi, 368, 6 text-figs.
 A popular account of *Naosaurus*.
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- 1907 B
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- 1913 E
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- 1913 F
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- Broom, Robert—Continued** 1913 G
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- 1913 H
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- 1913 K
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- 1913 L
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- 1913 M
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Nature, xcii, 6-7.
Abstract in Sci. Progress, viii, 643.
- 1913 N
The origin of mammals.
Proc. Roy. Soc. Lond. (B), lxxxvii, 87-88 (Abstract of lecture).
- 1913 O
On the South-African pseudosuchian *Euparkeria* and allied genera.
Proc. Zool. Soc. Lond., 1913, 613-633, pls lxxv-lxxx.
There is a bibliography of 6 titles.
- 1913 P
On the Gorgonopsia, a suborder of the mammal-like reptiles.
Proc. Zool. Soc. Lond., 1913, 225-230, pls xxxvi, xxxvii.
- 1914 A
Some points in the structure of the diadectid skull.
Bull. Amer. Mus. Nat. Hist., xxxiii, 109-114, 4 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 473; Geol. Zentralbl., xxi, 265; xxvii, 445.

- Broom, Robert—Continued 1914 B**
 On the structure and affinities of the Multituberculata.
 Bull. Amer. Mus. Nat. Hist., xxxiii, 115-124, pls. xi, xii, 9 text-figs.
 Abstracts in Bull. Geol. Soc. Amer., xxv, 140-141; Rev. crit. Paléozool., xviii, 99; Geol. Zentralbl., xxi, 301; xxvii, 222; Nature, xciii, 619, fig.
- 1914 C
 A further comparison of the South African dinocephalians with the American pelycosaurs.
 Bull. Amer. Mus. Nat. Hist., xxxiii, 135-141, 7 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 472-473; Geol. Zentralbl., xxviii, 446.
- 1914 D
 Structure and affinities of the Multituberculata.
 Bull. Geol. Soc. Amer., xxv, 140-141.
 Abstract.
- 1914 E
 Relations of the American pelycosaurs to the South African dinocephalians.
 Bull. Geol. Soc. Amer., xxv, 143.
 Abstract.
- 1914 F
 Conference on convergent evolution.
 Ann. N. Y. Acad. Sci., xxii, 295-299.
- 1914 G
 The origin of mammals.
 Ann. N. Y. Acad. Sci., xxiii, 302-306.
- 1914 H
 A new thecodont reptile.
 Proc. Zool. Soc. Lond., 1914, 1072-1077, 2 text-figs.
- 1915 A
 On the organ of Jacobson and its relations in the "Insectivora." Part II: *Talpa*, *Centetes*, and *Chrysochloris*.
 Proc. Zool. Soc. Lond., 1915, 157-162, 347-354, pls. i, ii, iii, iv.
- 1915 B
 On the Triassic stegocephalians *Brachyops*, *Bothriceps*, and *Lydekkerina*, gen. nov.
 Proc. Zool. Soc. Lond., 1915, 363-368, 3 text-figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, 137.
- 1915 C
 On the origin of mammals.
 Phil. Trans. Roy. Soc. Lond. (B), ccvi, 1-48, pls. i-vii.
 The bibliography comprises 99 titles.
- Broom, Robert—Continued 1916 A**
 On the structure of the skull in *Chrysochloris*.
 Proc. Zool. Soc. Lond., 1916, 449-450, pls. i, ii, 3 text-figs.
 Abstract in Nature, xcvi, 315.
- 1916 B
 Pareiasaurian nomenclature.
 Ann. Mag. Nat. Hist. (8), xvii, 347-348.
- 1916 C
 Discussion on the "Biologia Centrali-Americana."
 Proc. Zool. Soc. Lond., 1916, 549-550.
- 1917 A
 Comments on nomenclature of cranial elements.
 Bull. Geol. Soc. Amer. xxviii, 975-978.
- 1918 A
 Observations on the genus *Lysorophus* Cope.
 Ann. Mag. Nat. Hist. (9), ii, 232-239, 3 text-figs.
- 1921 A
 On the structure of the reptilian tarsus.
 Proc. Zool. Soc. Lond., 1921, pt. 1, 143-155, figs. 1-27.
 Abstract in Sci. Progress, xvi, 215.
- 1921 B
 On some genera and species of anomodont reptiles from the Karroo beds of South Africa.
 Proc. Zool. Soc. Lond., 1921, 647-674, 45 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, Ref., 145-147.
- 1922 A
 On the temporal arches of the Reptilia.
 Proc. Zool. Soc. Lond., 1922, 17-26.
- 1922 B
 On the persistence of the mesopterygoid in certain reptilian skulls.
 Proc. Zool. Soc. Lond., 1922, 455-460, 7 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, Ref., 147.
- 1923 A
 On the structure of the skull in the carnivorous dinocephalian reptiles.
 Proc. Zool. Soc. Lond., 1923, 661-684, 17 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, Ref., 147-149.

- Broom, Robert—Continued** 1924 A
On some points in the structure of the pareiasaurian skull.
Proc. Zool. Soc. Lond., 1924, 499-508, figs. 1-6.
There are 9 titles in the bibliography.
Abstract in Neues Jahrb. Min. Geol. Pal., 1925, I, Ref., 441.
- 1924 B
On the classification of the reptiles.
Bull. Amer. Mus. Nat. Hist., LI, 39-65, 13 figs.
- 1924 C
Further evidence on the structure of the *Eosuchia*.
Bull. Amer. Mus. Nat. Hist., LI, 67-70, 4 figs.
- 1925 A
On the origin of lizards.
Proc. Zool. Soc. Lond., 1925, pt. 1, 1-16, 3 figs.
- 1926 A
On the mammalian presphenoid and mesethmoid bones.
Proc. Zool. Soc. Lond., 1926, 257-264, 5 figs.
- 1927 A
Fossil hunting in the South African Karroo.
Nat. Hist., XXVII, 73-76, 3 figs.
- , and S. H. Haughton 1913 A
On the skeleton of a new pareiasaurian (*Pareiasuchus peringueyi* g. et sp. nov.).
Ann. S. Afric. Mus., XII, 17-25, pls. iv-v.
- 1913 B
On a new species of *Scymnognathus* (*S. tigriceps*).
Ann. S. Afric. Mus., XII, 26-35, pl. vi.
- 1913 C
On two new species of *Dicynodon*.
Ann. S. Afric. Mus., XII, 36-39, pl. vii.
- Brower, Charles D.** 1911 A
The musk-ox in Alaska.
Bull. Zool. Soc. N. Y., No. xiv, 754-755.
- Brown, Arthur Erwin** 1878 A
The *Sirenia*.
Amer. Naturalist, XII, 291-298.
- 1901 A
On some points in the phylogeny of the Primates.
Proc. Acad. Nat. Sci. Phila., LIII, 119-125.
Abstract in Geol. Centralbl., III, 59.
- Brown, Arthur Erwin—Cont'd.** 1904 A
Post-glacial nearctic centres of dispersal for reptiles.
Proc. Acad. Nat. Sci. Phila., LVI, 464-474.
- 1904 B
The zoology of North American big game.
Pages 52-98 in "American Big Game and Its Haunts," by George Bird Grinnell.
- Brown, Barnum** 1903 A
A new genus of ground sloth from the Pleistocene of Nebraska.
Bull. Amer. Mus. Nat. Hist., XIX, 569-583, pls. 1-11.
Describes *Paramylodon nebrascensis*.
Abstracts in Geol. Centralbl., VI, 54;
Neues Jahrb. Min. Geol. Pal., 1905, II, Ref. 471; Rev. crit. Paléozool., IX, 69; X, 140.
- 1904 A
Stomach stones and food of plesiosaurs.
Science (N.S.), XX, 184-185.
Abstracts in Geol. Centralbl., VII, 426
Rev. crit. Paléozool., X, 143-144.
- 1905 A
Recent exploration of a Pleistocene fissure in northern Arkansas.
Science (N.S.), XXI, 300.
- 1905 B
The osteology of *Champsosaurus* Cope.
Mem. Amer. Mus. Nat. Hist., IX, 1-26, pls. 1-IV.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, I, Ref., 132; Geol. Centralbl., XI, 474, Sci. Progress, I, 459.
- 1906 A
New notes on the osteology of *Triceratops*.
Bull. Amer. Mus. Nat. Hist., XXII, 297-300, pl. XI, 2 text-figs.
Brief abstracts in Geol. Centralbl., XI, 475; Neues Jahrb. Min. Geol. Pal., 1908, I, Ref., 442.
- 1907 A
The Hell Creek beds of the Upper Cretaceous of Montana.
Bull. Amer. Mus. Nat. Hist., XXIII, 823-845, 8 text-figs., two maps and lists of fossils found.
Abstracts in Geol. Centralbl., XIV, 326, Amer. Jour. Sci. (4), XXV, 86.
- 1907 B
Gastroliths.
Science (N.S.), XXV, 392

Brown, Barnum—Continued 1908 A

The Conrad fissure, a Pleistocene bone deposit in northern Arkansas; with description of two new genera and twenty new species of mammals.

Mem. Amer. Mus. Nat. Hist., New York, ix, 157-208, pls. xiv-xv, 3 text-figs.

Abstracts in Amer. Naturalist, xlii, 629; Neues Jahrb. Min. Geol. Pal., 1912, i, Ref., 358-360; Geol. Centralbl., xii, 220; Amer. Jour. Sci. (4), xxvii, 93; Sci. Progress, iii, 454, 457.

Review in Rev. crit. Paléozoöl., xvi, 221.

1908 B

The Ankylosauridae, a new family of armored dinosaurs from the Upper Cretaceous.

Bull. Amer. Mus. Nat. Hist., xxiv, 187-201, 20 text-figs.

Abstracts in Amer. Jour. Sci. (4), xxv, 523; Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 440-441; Geol. Centralbl., xiii, 204, Zeitschr. Indukt. Abstamm. Vererb.-Lehre, ii, 1909, 28; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 160; Sci. Progress, iii, 461.

1908 C

The *Trachodon* group.

Amer. Mus. Jour., viii, 51-56, 4 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 145; Geol. Centralbl., xii, 222.

1909 A

Notes on the restorations of the Cretaceous birds *Hesperornis* and *Baptornis*.

Science (n.s.), xxxi, 440.

1910 A

The Cretaceous Ojo Alamo beds of New Mexico with description of the new dinosaur genus *Kritosaurus*.

Bull. Amer. Mus. Nat. Hist., xxviii, 267-274, pls. xxvii-xxix, 7 text-figs.

Abstracts in Geol. Centralbl., xvii, 323; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 210; Sci. Progress, v, 681.

Review in Rev. crit. Paléozoöl., xvi, 233.

1911 A

Notes on the restorations of the Cretaceous birds *Hesperornis* and *Baptornis*.

Ann. N. Y. Acad. Sci., xx, 401.

1911 B

Fossil hunting by boat in Canada.

Amer. Mus. Jour., xi, 273-282, 12 figs.

Brown, Barnum—Continued 1912 A

The osteology of the manus in the family Trachodontidae.

Bull. Amer. Mus. Nat. Hist., xxxi, 105-108, 2 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1913, i, Ref., 525; Geol. Centralbl., xx, 145; Rev. crit. Paléozoöl., xvii, 74.

1912 B

A crested dinosaur from the Edmonton Cretaceous.

Bull. Amer. Mus. Nat. Hist., xxxi, 131-136, pls. x, xi, 4 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1913, i, Ref., 525; Geol. Centralbl., xx, 146; Rev. crit. Paléozoöl., xvii, 76.

1912 C

Brachyotracodon, a new genus of glyptodonts from Mexico.

Bull. Amer. Mus. Nat. Hist., xxxi, 167-177, pls. xiii-xviii, 4 text-figs.

Abstracts in Sci. Progress, viii, 10; Geol. Centralbl., xx, 145.

1912 D

Fossil hunting by boat in Canada.

Scient. Amer. Suppl., lxxiii, 82.

1913 A

The skeleton of *Saurolophus*, a crested duck-billed dinosaur from the Edmonton Cretaceous.

Bull. Amer. Mus. Nat. Hist., xxxii, 387-393, pls. lxii, lxiii, 1 text-fig.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 336; Sci. Progress, viii, 639; Rev. crit. Paléozoöl., xviii, 54; Geol. Centralbl., xxi, 265; Nature, xcii, 514.

1913 B

A new trachodont dinosaur, *Hypacrosaurus*, from the Edmonton Cretaceous of Alberta.

Bull. Amer. Mus. Nat. Hist., xxxii, 395-406, 8 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 336; Sci. Progress, viii, 639; Rev. crit. Paléozoöl., xviii, 53; Geol. Centralbl., xxi, 265.

1913 C

A new plesiosaur, *Leurospondylus*, from the Edmonton Cretaceous of Alberta.

Bull. Amer. Mus. Nat. Hist., xxxii, 605-615, 7 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 510-511; Rev. crit. Paléozoöl., xxi, 52; Geol. Centralbl., xxi, 264; Nature, xcii, 563.

- Brown, Barnum—Continued** 1913 D
A new crested dinosaur.
Amer. Mus. Jour., xiii, 138-144, 7 plates.
Abstract in Nature, xci, 326.
- 1913 E
The manus of trachodont dinosaurs.
Science (n.s.), xxxviii, 926-927.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 508; Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 145.
- 1914 A
Anchiceratops, a new genus of horned dinosaurs from the Edmonton Cretaceous of Alberta. With discussion of the origin of the ceratopsian crest and the brain casts of *Anchiceratops* and *Trachodon*.
Bull. Amer. Mus. Nat. Hist., xxxiii, 539-548, pls. xxix-xxxvii, 1 text-fig.
Abstracts in Rev. crit. Paléozool., xix, 102; xxi, 53; Geol. Zentralbl., xxviii, 446.
- 1914 B
A complete skull of *Monoclonius*, from the Belly River Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xxxiii, 549-558, pls. xxxviii-xi, 2 text-figs.
Abstract in Rev. crit. Paléozool., xix, 102; xx, 140; Geol. Zentralbl., xxviii, 445.
- 1914 C
Corythosaurus casuarius, a new crested dinosaur from the Belly River Cretaceous, with provisional classification of the family Trachodontidae.
Bull. Amer. Mus. Nat. Hist., xxxiii, 559-565; pl. xli.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1919, Ref., 356; Rev. crit. Paléozool., xix, 102; xx, 138-139; Geol. Zentralbl., xxviii, 445; Nature, xciv, 492, fig.
- 1914 D
Leptoceratops, a new genus of *Ceratopsia* from the Edmonton Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xxxiii, 567-580, pl. xlii, 19 text-figs.
Abstracts in Rev. crit. Paléozool., xix, 102; xx, 139; Neues Jahrb. Min. Geol. Pal., 1920, i, Ref., 247; Geol. Zentralbl., xxviii, 376.
- 1914 E
Cretaceous-Eocene correlation in New Mexico, Wyoming, Montana, Alberta.
Bull. Geol. Soc. Amer., xxv, 335-380, 2 text-figs.
Abstract in Rev. crit. Paléozool., xx, 37.
- Brown, Barnum—Continued** 1915 A
Tyrannosaurus, the largest flesh-eating animal that ever lived.
Amer. Mus. Jour., xv, 271-280, 5 plates 2 figures.
- 1915 B
Fossil hunting by boat in Canada. Handbook series No. 5, Amer. Mus. Nat. Hist., New York, 152-159, figs. 47, 48.
- 1915 C
Tyrannosaurus, a Cretaceous carnivorous dinosaur.
Scient. Amer., cxiii, 322-323, 6 figs.
Abstract in Nature, xcvi, 326.
- 1916 A
A new crested trachodont dinosaur *Prosaurolophus maximus*.
Bull. Amer. Mus. Nat. Hist., xxxv, 701-708, 5 text-figs.
Abstracts in Rev. crit. Paléozool., xxi, 55; Neues Jahrb. Min. Geol. Pal., 1920, i, Ref., 246.
- 1916 B
Corythosaurus casuarius: Skeleton, musculature and epidermis.
Bull. Amer. Mus. Nat. Hist., xxxv, 709-716, pls. xin-xxii.
Abstracts in Rev. crit. Paléozool., xxi, 55; Nature, xcvi, 356; Neues Jahrb. Min. Geol. Pal., 1919, Ref., 356.
- 1917 A
A complete skeleton of the horned dinosaur *Monoclonius*, and description of a second skeleton showing skin impressions.
Bull. Amer. Mus. Nat. Hist., xxxvii, 281-306, pls. xi-xix, 4 text-figs.
Abstracts in Rev. crit. Paléozool., xxiv, 146-147; Geol. Zentralbl., xxviii, 534; Sci. Progress, xii, 425.
- 1917 B
Monoclonius, a Cretaceous horned dinosaur.
Amer. Mus. Jour., xvii, 135-140, 4 illust.
- 1919 A
Hunting big game of other days. A boating expedition in search of fossils in Alberta, Canada.
Nat. Geogr. Mag., xxxv, 407-429, 25 illustrations.
- 1920 A
Note on scapula of an armored dinosaur.
U. S. Geol. Surv. Profess. Pap., cxix, 65.
See also Brown and Matthew; Brown and Osborn.

- Brown, J. S.** 1904 A
Mammoth tooth [found at Austin, Texas.]
Scient. Amer., xc, 119.
- Brown, Robert** 1868 A
Notes on the history and geographical relations of the Cetacea frequenting Davis Strait and Baffin's Bay.
Proc. Zool. Soc. Lond., 1868, 533-556.
- Bru, Jean-Baptiste** 1804 A
Description des os du *Megatherium*, faite en montant le squelette.
Ann. Mus. hist. nat. Paris, v, 387-400, pls. xxiv, xxv.
An abridged translation made by Bonpand. A description of the South American species.
- Brubacher, H.** 1892 A
Uebermässiges, ungewöhnliches Wachstum der Schneidezähne bei Nagethieren.
Deutsche Monatsschr. Zahnheilk., x, 1-5, 4 figs.
There is a bibliography of 13 titles.
- Bruch, C.** 1853 A
Ueber die Entwicklung der Clavicula und die Farbe des Blutes.
Zetschr. wiss. Zool., iv, 371-376.
- 1862 A
Vergleichung des Schädels mit der Wirbelsäule des Lachses, mit einer Aufzählung sämtlicher Skelettheile desselben nach der Art ihrer Zusammensetzung.
Abh. Senckenb. naturf. Ges., iv, 73-130, 10 text-figs.
- Bruch, Phil.** 1853 A
Monographische Uebersicht der Gattung *Larus* Lin.
Jour. Ornith., i, 96-108.
- Brühl, Carl Bernhard** 1862 A
Icones ad zootomiam illustrandam: Das Skelet der Crocodile dargestellt in 20 Tafeln.
Folio, Vienna, 1862.
- Bruni, Angelo Cesare** 1910 A
Sui primi stadi di sviluppo della colonna vertebrale dei Rettili e degli Uccelli.
Atti Accad. Sci. Torino, xlv, 750-757, 1 pl.
- Brunner, Josef** 1904 A
The vanishing beaver, the original woodcutter, engineer and irrigator.
Country Life in America, v, 476-481, 523-526, 18 text-figs.
- Brunner, Josef—Continued** 1905 A
The devastating squirrel. Some evidence that he is an enemy of the forest, since he destroys the birds that would keep down harmful insects.
Country Life in America, vii, 264-269, 9 text-figs.
- Bruyère, Henri** 1901 A
Le *Ceratodus*.
La Nature, xxix, 89-91, 1 text-fig.
- Bryan, Kirk** 1923 A
Erosion and sedimentation in the Papago Country, Arizona.
Bull. U. S. Geol. Surv., dcccxxx, 19-90, map, pls. x-xviii, 25 text-figs.
- 1927 A
The "Palouse soil" problem, with an account of elephant remains in wind-borne soil on the Columbia Plateau of Washington.
Bull. U. S. Geol. Surv., dcccxc, 19-45, pls. iv-vii.
- , and J. W. Gidley 1926 A
Vertebrate fossils and their enclosing deposits from the shores of Pleistocene Lake Cochise, Arizona.
Amer. Jour. Sci. (5), xi, 477-488, 2 figs.
- Bryan, William Alanson** 1927 A
A Pleistocene park in the making.
Mus. Graphic, i, 77-82, with figs.
- Bryant, Harold C.** 1914 A
Teeth of a cestracient shark from the Upper Triassic of northern California.
Bull. Dept. Geol., Univ. Calif., viii, 27-30, 2 text-figs.
Abstracts in Geol. Zentralbl., xxi, 623; xxix, 477.
- 1914 B
Vertebrate fauna of the Triassic limestones at Cow Creek, Shasta County, California.
Bull. Geol. Soc. Amer., xxv, 155 (abstract).
- Bryant, William L.** 1916 A
The restoration of *Dinichthys magnificus* Hussakof and Bryant.
Buffalo Soc. Nat. Sci. A brochure without title, 9-11, 1 plate.
- 1919 A
On the structure of *Eusthenopteron*.
Bull. Buffalo Soc. Nat. Sci., xiii, 1-22, pls. i-xviii, 8 text-figs.
Noticed in Amer. Jour. Sci. (4), l, 240.
- 1924 A
A new species of *Bothriolepis* from the Upper Devonian of Canada.
Bull. Buffalo Soc. Nat. Sci., xiii, No. 3, 54-55, pls. i, ii.

- Bryant, William L.**—Continued 1926 A
Evidence of the presence of chorodates in the Cambrian.
Bull. Geol. Soc. Amer., xxxvii, 236 (abstract).
1926 B
On the structure of *Palaeaspis* and on the occurrence in the United States of fossil fishes belonging to the family Pteraspidae.
Proc. Amer. Philos. Soc., lxxv, 256-271. pls. i-iii, 3 text-figs.
— See **Hussakof and Bryant.**
- Buckland, Francis Trevelyan** 1838 A
On fossil remains of *Megatherium*.
Rep. Brit. Assoc. Adv. Sci., 1st and 2d Meet., 1837 (1838), 104-107
Abstract in Neues Jahrb. Min. Geogr. Geol. Jahrg., 1834, Ref., 112-113.
- Buckley, E. C.** 1903 A
Distribution of mastodon remains in Wisconsin.
Science (n.s.), xvii, 297.
- Buckley, S. B.** 1866 A
A preliminary report of the geological and agricultural survey of Texas, Austin, 1866.
Pages 1-81, with appendix, pages 1-4.
1874 A
First annual report of the Geological and Agricultural survey of Texas, Houston, 1874.
Pages 1-142.
1876 A
Second annual report of the geological and agricultural survey of Texas, Houston, 1876.
Pages 1-96.
- Bugnion, E.** 1901 A
L'articulation de l'épaule chez les animaux et chez l'homme.
C. R. Assoc. Anatomistes, Lyons, iii, 93-104, figs. 1, 2.
- Buist, T. P.** 1912 A
On the development of the pectoral girdle in the pipefish (*Syngnathus acus*).
Ann. Mag. Nat. Hist. (8), x, 613-621, pls. xiii.
- Bulman, O. M. B., and W. F. Whittard** 1926 A
On *Branchiosaurus* and allied genera (Amphibia).
Proc. Zool. Soc. Lond., 1926, 533-579, pls. i-iii, 15 text-figs.
The synonymy and literature are cited under the various species.
- Burckhardt, R.** 1902 A
Das Problem des antarktischen Schöpfungscentrums vom Standpunkt der Ornithologie.
Zool. Jahrb. Syst., xv, 499-536.
See Neues Jahrb. Min. Geol. Pal., 1905, i, Ref., 338-339.
- 1903 A
IV. Skeletsystem. D: Palaeontologisches.
Jahresber. Anat. Entwickl. (N.F.), viii, pt 3, 77-129.
On pages 77-84 is a list of papers, abstracts of most of which are presented on the succeeding pages.
- 1905 A
Spezielle Anatomie und Entwicklungsgeschichte des Menschen und der Wirbeltiere. IV. Skeletsystem. D: Paläontologisches.
Jahresber. Anat. Entwickl. (N.F.), x, Abt. 3, 145-187.
On pages 145-153 is a list of the papers, abstracts of which are presented on the succeeding pages.
- 1906 A
Skeletsystem. Paläontologisches.
Jahresber. Anat. Entwickl. (N.F.), xi, pt 3, 149-185.
On pages 149-154 are listed titles of 137 papers, résumés of some of which are presented on the succeeding pages.
- Burden, Douglas** 1927 A
The quest for the dragon of Komodo.
Nat. Hist., xxvii, 3-18, 20 figs.
- Burlet, H. M. de** 1913 A
Zur Entwicklungsgeschichte des Walschädels. I: Über das Primordial cranium eines Embryo von *Phocaena communis*.
Morphol. Jahrb., xiv, 523-556, pls. xv-xvii, 24 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 46-49.
- 1913 B
Über einen rudimentären Wirbelkörper an der Spitze des Dens epistrophei bei einem Embryo von *Brady-pus cuculli*.
Morphol. Jahrb., xiv, 392-408, 12 figs.
The bibliography includes 40 titles.

- Burlet, H. M. de**—Continued 1913 C
Zur Entwicklungsgeschichte des Walschädels. II: Das Primordialcranium eines Embryo von *Phocaena communis* von 92 mm.
Morphol. Jahrb., XLVII, 645-676, 2 pls., 25 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 46-49.
- 1914 A
Zur Entwicklungsgeschichte des Walschädels. III: Das Primordialcranium eines Embryo von *Balanoptera rostrata* (105 mm.).
Morphol. Jahrb., XLIX, 119-178, pls. i-vii, 33 text-figs.
For No. I, see vol. XLV; for No. 2, vol. XLVII.
- 1914 B
Zur Entwicklungsgeschichte des Walschädels. IV: Über das Primordialcranium eines Embryo von *Lagenorhynchus albirostris*.
Morphol. Jahrb., XLIX, 393-406, 9 text-figs.
- 1916 A
Zur Entwicklung des Walschädels. V: Zusammenfassung des über den Knorpelschädel der Wale Mitgeteilten.
Morphol. Jahrb., L, 1-18, 7 figs.
- 1917 A
Beiträge zur Entwicklungsgeschichte der Wirbelsäule der Cetaceen.
Morphol. Jahrb., L, 373-402, 19 figs.
The bibliography includes 22 titles.
- Burmeister, H.** 1868 A
Mammifera pinnata Argentina.
An. Mus. Nac. Buenos Aires, I, 301-366, pls. xv-xx.
Presents a detailed description of *Epidon australe*.
- 1868 B
Erwiderung auf die briefliche Mittheilung des Herrn Dr. J. Reinhardt, die Hautbedeckung der Gravigraden betreffend.
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- 1868 C
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Jour. Geol., viii, 698-729, pls. 1-v. (Reprint, 1-29, pls.)

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1902 A

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Contrib. Walker Mus. i, 45-50, pls. ix, x
Abstracts in Geol. Centralbl., x, 371;
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1902 B

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Rep. Geol. Nat. Hist. Surv. Okla., ii, 62-68

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1902 C

Palaeontological notes.

Jour. Geol., x, 256-261, pls. 1, ii
Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 140; Geol. Centralbl., x, 371.

1903 A

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Amer. Naturalist, xxxvii, 85-102, 10 figs.
Abstract in Geol. Centralbl., v, 42.

1903 B

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Jour. Geol., xi, 1-23, figs. 1-23.
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Case, E. C.—Continued 1903 C

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Jour. Geol., xi, 394-402, figs. 1-10

Abstracts in Geol. Centralbl., iv, 723; v, 40; Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 138; Geol. Centralbl., v, 40.

1904 A

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Jour. Geol., xii, 304-311, figs. 1-6.

Abstracts in Geol. Centralbl., v, 635; x, 426

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Jour. Geol., xii, 312-315, figs. 1-3

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1904 C

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Science (n.s.), xix, 253.

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1904 D

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Maryland Geol. Surv. Miocene volume, 1-70, pls. x-xxvii.

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1905 A

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Science (n.s.), xxi, 298.

1905 B

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Jour. Geol., xiii, 126-159, 20 figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 314-315.

1905 C

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Trans. Amer. Philos. Soc. (n.s.), xxi, 5-29, pls. 1-vii, figs. 1-8.

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1905 D

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Science (n.s.), xxii, 52-53.

1905 E

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Bull. Wis. Nat. Hist. Soc. (n.s.), iii, 169-180.

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 Description of the skull of *Bolosaurus striatus* Cope.
 Bull. Amer. Mus. Nat. Hist., xxiii, 653-658, pl. xlviii, text-figs. 1-5.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, i, Ref., 286-287; Geol. Centralbl., x, 425; Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 42; Sci. Progress, ii, 521.
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 The character of the Wichita and Clear Fork divisions of the Permian Red Beds of Texas.
 Bull. Amer. Mus. Nat. Hist. xxiii, 659-664, 1 fig.
 For a summary see Neues Jahrb. Min. Geol. Pal., 1908 i, 256-259. Abstract in Geol. Centralbl., x, 421.
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 Additional description of the genus *Zatrachis* Cope.
 Bull. Amer. Mus. Nat. Hist., xxiii, 665-668, figs. 1-6
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, i, Ref., 287-288; Geol. Centralbl., x, 424.
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 Jour. Geol., xv, 556-559, figs. 1, 2.
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 Description of vertebrate fossils from the vicinity of Pittsburgh, Pennsylvania.
 Ann. Carnegie Mus., iv, 234-241, pl. lx, text-figs. 1-8.
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- 1908 C
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 Jour. Geol., xvi, 572-580.
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 Pop. Sci. Month., LXXIII, 557-568, 13 text-figs.
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 Science (n.s.), xxvii, 255-256.
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 Bull. Amer. Mus. Nat. Hist., xxviii, 183-188, 3 figs.
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1872 PP

Third account of new Vertebrata from the Bridger Eocene of Wyoming valley.

Palaeont. Bull. No. 3, 1-4.

Same as Cope, E. D., 1872 E, but earlier and with typographical errors not corrected.

1872 QQ

On the existence of Dinosauria in the transition beds of Wyoming.

Palaeont. Bull. No. 4, 1-2.

Same as Cope, E. D., 1872 Q, but earlier and without correction of typographical errors.

1872 RR

Notices of the Vertebrata from the upper waters of Bitter Creek, Wyoming Territory.

Palaeont. Bull. No. 6, 1-4.

Same as Cope, E. D., 1872 R, but earlier and with uncorrected errors.

1872 SS

Second notice of extinct vertebrates from Bitter Creek, Wyoming.

Palaeont. Bull. No. 7, 1-2.

Same as Cope, E. D., 1872 S, but earlier and without correction of errors.

1872 TT

On a new vertebrate genus from the northern part of the Tertiary basin of Green River.

Palaeont. Bull. No. 8, 1.

Same as Cope, E. D., 1872 U, but earlier.

1872 UU

Descriptions of new extinct reptiles from the upper Green River Eocene basin, Wyoming.

Palaeont. Bull. No. 9, 1.

Same as Cope, E. D., 1872 V, but earlier.

Cope, E. D.—Continued

1872 VV

Remarks on the geology of Wyoming.

Palaeont. Bull. No. 10, 1-2.

Same as part of Cope, E. D., 1872 EE, but probably earlier.

1873 B

On two new perissodactyles from the Bridger Eocene.

Proc. Amer. Philos. Soc., xiii, 35-36.

Also issued as Pal. Bull. No. 11.

1873 E

See Hay, O. P., 1902 A, p. 44.

Notice, with list of species, in Jour. Zool. Paris, iii, 1874, 59-61.

1873 EE

On two new perissodactyles from the Bridger Eocene.

Palaeont. Bull. No. 11, 1-2.

In part same as Cope, E. D., 1873 B, but earlier.

1873 FF

On some of Professor Marsh's criticisms.

Palaeont. Bull. No. 13, 1-8.

Mostly same as Cope, E. D., 1873 X; probably earlier, but without date.

1874 U

Notes on the Santa Fé marls, and some of the contained vertebrate fossils.

Palaeont. Bull. No. 18, 147-152.

Reprint from Proc. Acad. Nat. Sci., Phila., 1874, 147-152, but probably issued earlier. Without date, serial name and serial number.

1875 Y

On the supposed Carnivora of the Eocene of the Rocky Mountains.

Proc. Acad. Nat. Sci. Phila., 1875, 444-448.

Same as Cope, E. D., 1876 A.

1876 J

On the fossil remains of Reptilia and fishes from Illinois.

In Hay, O. P., 1902 A, 112 this paper is recorded as Cope, E. D., 1875 T. It was reprinted in Ann. Mag. Nat. Hist. (4), xvii, 178-184.

1877 AA

Verbal communication on a new locality of the Green River shales containing fishes, insects, and plants in a good state of preservation.

Palaeont. Bull. No. 25, 1.

1878 GG

A new deer from Indiana.

Amer. Naturalist, xii, 189.

In Hay, O. P., 1902 A, 51, the volume is, by misprint, given as iv.

Cope, E. D.—Continued

1878 II

Pliocene man.

Amer. Naturalist, xii, 125-126.

Includes a list of some species of fossil vertebrates found in Oregon.

1878 JJ

The structure of *Coryphodon*.

Nature, xviii, 67.

1878 KK

On the saurians of the Dakota Cretaceous of Colorado.

Nature, xviii, 476.

1878 LL

On the remains of a Permian fauna in North America.

Nature, xviii, 482.

1880 U

Sur les relations des niveaux de vertébrés éteints dans l'Amérique du Nord et en Europe.

C. R. Congr. Internat. Geol., i, Paris. 1878, 144-163.

1880 V

Pliocene man.

Amer. Naturalist, xiv, 60-62.

Discusses finding of human remains and artifacts reported by J. D. Whitney from auriferous gravels in California.

1881 H

See Hay, O. P., 1902 A, p. 53.

Abstract in Neues Jahrb. Min. Geol. Pal., 1883, ii, Ref., 264-265.

1881 X

Reprinted, with extracts from other articles on *Phenacodus*, in Geol. Mag. n. s. (3), iii, 1886, 49-52.

1882 M

See Hay, O. P., 1902 A, p. 55.

Reprinted in Ann. Mag. Nat. Hist. (5), ix, 211.

1882 N

See Hay, O. P., 1902 A, p. 55.

Reprinted in Ann. Mag. Nat. Hist. (5), ix, 212.

1884 KK

The evidence for evolution in the history of the extinct Mammalia.

Proc. Amer. Assoc. Adv. Sci., xxxii, 1883, Minneapolis, 32-48.

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Cope, E. D.—Continued

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Trans. Vassar Bros. Inst., Poughkeepsie, N. Y., ii, 60-80.

1885 CC

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Amer. Naturalist, xix, 1226-1227.

1885 DD

Batrachia.

Stand. Nat. Hist., iii, 303-344, figs. 170-205.

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Origin of man and other vertebrates.

Pop. Sci. Month., xxviii, 605-614, 3 figs.

1885 FF

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Pop. Sci. Month., xvii, 789-800, 9 figs.

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Proc. Amer. Philos. Soc., xxiii, 442-445; pls. vi, vii.

1887 N

See Hay, O. P., 1902 A, p. 62.

Review in Neues Jahrb. Min. Geol. Pal., 1890, ii, Ref., 315-321.

1888 E

See Hay, O. P., 1902 A, p. 62.

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Abstract in Geol. Mag. (3), ix, 233-235.

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Jour. Morphol., vii, 223-244, pl. xiii, 2 text-figs.

1893 S

A supposed new order of gigantic fossils from Nebraska.

Amer. Naturalist, xxvii, 559-560.

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1895 G

The antiquity of man in North America.

Amer. Naturalist, xxix, 593-599.

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Letter to C. H. Sternberg dated Dec. 21st, 1889.

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Published and distributed with the cooperation of the United States Geological Survey by the American Museum of Natural History. Monograph series number 2.
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 Description of the Telluride quadrangle.
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Ann. Mus. hist. nat. Paris, xix, 268-295.
- 1822 A
Considérations sur les caractères génériques de certaines familles de mammifères, appliquées aux marmottes (*Arctomys marmotta* et *Arctomys empetra*) et au souslik (*Arctomys citillus*), et formation du genre spermophile.
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Examen des espèces du genre porc-épic, et formation des genres ou sous-genres *Acanthion*, *Eréthizon*, *Sinéthère* et *Sphiggure*.
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De quelques espèces de phoques et des groupes génériques entre lesquelles se partagent.
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Cuvier, George

1799 B

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mens fossiles de quadrupèdes.

Bull. Soc. Philom. Paris, I, 90.

1800 A

Leçons d'anatomie comparée.

For citations see Cuvier, G., 1805 A. They
differ only in the year.

1801 A

Extrait d'un mémoire sur les dents
des poissons.

Bull. Soc. Philom. Paris, III, 25-26.

The paper is signed C. Cuvier.

1803 A

Recherches d'anatomie comparée sur
les dents.

Bull. Soc. Philom., Paris, III, 165-168.

The paper is signed C. Cuvier.

1804 C

Description ostéologique du tapir.

Ann. Mus. hist. nat. Paris, III, 122-131,
pl. i.

1804 D

Sur quelques dents et os trouvés en
France qui paroissent avoir appartenu
à des animaux du genre du tapir.

Ann. Mus. hist. nat. Paris, III, 132-143,
pls. II-V.

1804 E

Des animaux qui diffèrent du *Pa-
leotherium* pour le genre, mais qui
sont de même ordre, et particulière-
ment du genre *Anoplotherium*, et de
ses espèces.

Ann. Mus. hist. nat. Paris, III, 370-382,
pls. VIII-XIII.

1805 A

Leçons d'anatomie comparée.

Paris, 1805, 8vo., I, I-XXXI+1-522 pages,
9 tables, vol. II, I-XVI; 1-699.

Tables I-III of the first volume present a
classification of the Vertebrata and Latin
names for the genera are employed.

The first edition was published in 1800,
but citations are not made from it. The
two editions seem not to differ.

1806 A

Sur les éléphants vivants et fossiles.

Ann. Mus. hist. nat. Paris, VIII, 1-58, 93-
155, 249-269, pls. XXXVIII-XLV.

1806 D

Memoir upon living and fossil ele-
phants.

Tilloch's Philos. Mag., XXVI, 1806, 158-
169, 204-211, 302-314; XXVIII, 1807, 258-264,

Cuvier, George—Continued

359-366, pls. VI-VIII; XXIX, 1808, 52-65, 244-
254, pl. VI; XXX, 1808, 15-25, pls. II-V.

An English translation from Ann. Mus.
hist. nat. Paris, VIII, 1-58, 93-155; 249-269.

1807 A

Sur les différentes espèces de croco-
diles vivans et sur leurs caractères dis-
tinctifs.

Ann. Mus. hist. nat. Paris, X, 8-66, pl. I

1807 B

A la classe des sciences physiques
et mathématiques de l'Institut.

Ann. Mus. hist. nat. Paris, X, 381-386.

1808 C

Observations sur l'ostéologie des
crocodiles vivans.

Ann. Mus. hist. nat. Paris, XII, 1-26, pls.
I, II

Abstract in Isis von Oken, II, 1818, 289-
291.

1808 D

Sur les ossemens fossiles de croco-
diles, et particulièrement sur ceux des
environs du Havre et de Honfleur,
avec des remarques sur les squelettes
des sauriens de la Thuringe.

Ann. Mus. hist. nat. Paris, XII, 73-110,
pls. X, XI.

1809 A

De quelques rongeurs fossiles, prin-
cipalement du genre des castors qui se
sont trouvés dans des tourbes ou dans
des alluvions, et de quelques autres
rongeurs enfermés dans des schistes.

Ann. Mus. hist. nat. Paris, XIV, 47-55,
pl. VII.

1809 B

Recherches sur les espèces vivantes
de grands chats, pour servir de preuves
et d'éclaircissements au chapitre sur
les carnassiers fossiles.

Ann. Mus. hist. nat. Paris, XIV, 136-164,
pls. XV, XVI.

1812 A

Sur la composition de la tête osseuse
dans les animaux vertébrés.

Ann. Mus. hist. nat. Paris, XIX, 123-128.

Abstract in Isis, II, 118, 283-285.

1814 A

Mémoire sur la composition de la
machoire supérieure des poissons et sur
le parti qu'on peut en tirer pour la
distribution méthodique de ces ani-
maux.

Bull. Soc. Philom. Paris, 1814, 73-78.

- Cuvier, George**—Continued 1815 A
 Mémoire sur la composition de la mâchoire supérieure des poissons, et sur le parti que l'on peut en tirer pour la distribution méthodique de ces animaux.
 Mém. Mus. hist. nat. Paris, I, 102-132.
 Abstract in *Isis*, II, 1818, 285-290, 1059-1072.
- 1825 A
 Recherches sur les ossements fossiles.
 Third edition, in five volumes; the fifth in two parts
 This edition is said to be identical with the third, which was published in parts from 1821 to 1824.
- 1827 A
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- 1909 A
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- Davidson, Pirie** 1919 A
A cetraciont spine from the Middle Triassic of Nevada.
Bull. Dept. Geol. Univ. Calif., xi, 433-435, 2 text-figs.
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- 1923 A
Alticamelus alexandrae, a new camel from the Barstow Upper Miocene of the Mohave Desert.
Bull. Dept. Geol. Univ. Calif., xiv, 397-408, 16 figs.
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Die Entwicklung der Feder und ihre Beziehungen zu anderen Integument-bilden.
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With numerous citations of the literature.
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Geologist, vi, 135-136.
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On the fish-remains found in the Cannel Coal in the Middle Coal-measures of the West Riding of Yorkshire, with the description of some new species.
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- 1881 B
On *Anodontacanthus*, a new genus of fossil fishes from the Coal-measures; with descriptions of three new species.
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- Dawkins, W. B.** 1865 A
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- 1878 A
Contributions to the history of the deer of the European Miocene and Pliocene strata.
Quar. Jour. Geol. Soc., **xxxiv**, 402-420, 17 text-figs.
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- 1885 A
On a skull of *Ovibos moschatus* from the sea-bottom.
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- 1887 A
The British Pleistocene Mammalia. Part 6. British Pleistocene Cervidæ.
Pages 1-29, pls. i-vii. 4to. Paleontog. Soc., London.
- 1915 A
The classification of the Tertiary strata by means of the eutherian mammals.
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- Dawson, Alden B.** 1925 A
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Anat. Record, **xxx**, 205-210, 2 figs.
The bibliography presents 12 titles.
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On the newer Pliocene and Post-Pliocene deposits of the vicinity of Montreal, with notices of fossils recently discovered in them.
Canad. Natural. Geol., **ii**, 401-426, 2 text-figs.
- 1884 A
Report on the region in the vicinity of the Bow and Belly Rivers, Northwest Territory.
Rep. Geol. Nat. Hist. Surv. Canada, 1882-1884, **C**, 1-156, with maps.
- Dawson, George M.**—Continued 1893 A
Notes on the occurrence of mammoth remains in the Yukon district of Canada and in Alaska.
Nature, **xlxx**, 94.
- 1894 A
Abstracts in Geol. Mag. (3), **x**, 574-575; Canad. Rec. Sci., **vi**, 59.
- 1899 A
Summary report on the operations of the Geological Survey for the year 1898, by the Director.
Rep. Geol. Surv. Canad., **xi**, 1A-208A.
- 1901 A
Summary report on the operations of the Geological Survey for the year 1900.
Rep. Geol. Surv. Canad., **xiv**, 1A-203A.
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On the Coal-measures of South Joggins, Nova Scotia.
Quart. Jour. Geol. Soc., **x**, 1-42, 25 figs.
Appended is a list of 24 papers referring to this subject.
- 1863 F
Superficial geology of Canada.
Rep. Geol. Surv. Canad., 1863, 886-930.
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- 1870 B
Note on some animal remains from the Carboniferous and Devonian of Canada.
Nature, **i**, 271
- 1872 B
The Post-Pliocene geology of Canada.
Canad. Natural. Geol. (n.s.), **vi**, 19-42, 166-187, 241-259, 369-416, map, pls. ii-vii.
See Dawson, J. W., 1872 C.
- 1872 C
Notes on the Post-Pliocene geology of Canada; with especial reference to the conditions of accumulation of the deposits and the marine life of the period.
Montreal, 8vo., i-vi+1-112 pages, map, pls. ii-vii.
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- 1888 A
Microsauria and *Dendroperpeton*.
Nature, **xxxvii**, 393.

- Dawson, J. W.**—Continued 1894 C
The Canadian ice age. Being notes on the Pleistocene geology of Canada, with especial reference to the life of the period and its climatic conditions. Montreal, 8vo., i-x+1-301 pages, 10 pls., several text-figs.
- 1894 D
Notes on the occurrence of mammoth remains in the Yukon district of Canada and in Alaska.
Quart. Jour. Geol. Soc. Lond., L, 1-9.
- Day, E. C. H.** 1865 A
On a head of *Hybodus delabechei*.
Geol. Mag., II, 565.
- Day, Henry** 1915 A
A note on the parasphenoid of a palæoniscoid.
Ann. Mag. Nat. Hist. (8), xvi, 421-434, 3 text-figs.
- Dean, Bashford** 1891 A
Abstract in Geol. Mag. (3), viii, 513.
- 1893 E
Contributions to the anatomy of *Dinichthys*.
Trans. N. Y. Acad. Sci., xii, 187-188 (Abstract).
- 1895 B
Notes of the ancestral sharks.
Anat. Anz., xi, 424.
- 1895 C
Notes on the early development of the ganoids, *Lepidosteus*, *Acipenser* and *Amia*.
Rep. Brit. Assoc. Adv. Sci., LXV, Ipswich, 1895, 734.
A brief abstract.
- 1896 D
On the early development of ganoids.
C. R. Congr. internat. Zool., iii, Leyde, 1895 (1896), 336-346.
- 1900 A
The so-called Devonian lamprey, *Palæospondylus gunni*; with notes on the systematic arrangement of the fish-like vertebrates.
Mem. N. Y. Acad. Sci., II, 1-32, pl. 1, 1 text-fig.
Reviewed by C. R. Eastman, Jour. Geology, viii, 226-239.
- 1900 B
The Jay Terrell collection of fossil fishes.
Amer. Mus. Jour., I, 10-12, 1 text-fig
A popular account of the dinichthyids.
- Dean, Bashford**—Continued 1900 C
On the embryology and phylogeny of *Chimæra*.
Science (n.s.), xi, 169-170.
- 1901 A
On two new arthrodires from the Cleveland shale of Ohio.
Mem. N. Y. Acad. Sci., II, 87-100, pls. ii-vi, 2 text-figs.
Abstracts in Geol. Centralbl., III, 122; Neues Jahrb. Min., Geol., Pal., 1903, I, Ref., 339-342; Rev. crit. Paléozool., vi, 68.
- 1901 B
On the characters of *Mylostoma* Newberry.
Mem. N. Y. Acad. Sci., II, 101-109, pls. vii, viii, 8 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 339-342; Geol. Centralbl., III, 116; Rev. crit. Paléozool., vi, 68.
- 1901 C
Further notes on the relationships of the Arthrognathi.
Mem. N. Y. Acad. Sci., II, 110-123, text-figs. 11-18.
Abstracts in Geol. Centralbl., III, 121; Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 339-342, Rev. crit. Paléozool., vi, 68.
- 1902 A
Historical evidence as to the origin of the paired limbs of vertebrates.
Amer. Naturalist, xxxvi, 767-776, 1 text-fig.
Abstracts in Geol. Centralbl., IV, 297; Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 313-314; Rev. crit. Paléozool., vii, 75-76.
- 1902 B
Biometric evidence in the problem of the paired limbs of the vertebrates.
Amer. Naturalist, xxxvi, 837-847, with 1 text-fig.
Abstract in Geol. Centralbl., IV, 297.
- 1902 C
Review of O. P. Hay's "Bibliography and catalogue of the fossil Vertebrata of North America." (Hay, O. P., 1902 A.)
Science (n.s.), xvi, 701-703.
- 1902 D
The preservation of muscle-fibres in sharks of the Cleveland shale.
Amer. Geologist, xxx, 273-278, pls. viii, ix.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 478; Geol. Centralbl., IV, 300; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 89.
- 1903 A
An outline of the development of a chimæroid.
Biol. Bull., IV, 270-286, 19 text-figs.

- Dean, Bashford—Continued 1904 A**
 In the matter of the Permian fish
Menaspis.
 Amer. Geologist, xxxiv, 49-53, pl. ii.
 Abstract in Jahresber. Anat. Entwickl.
 (N.F.), xi, pt. 3, 159.
- 1904 B
 L'oeuf de *Chimæra collicei* et l'adaptation de sa capsule.
 C. R. Soc. Biol. Mém., LVII, 14-15.
- 1904 C
 Fossil fishes in the American Museum of Natural History.
 Science (n.s.), xix, 437.
- 1904 D
 Review of Traquair's "The Lower Devonian Fishes of Gemünden."
 Science (n.s.), xix, 64-65.
- 1904 E
 Evolution in a determinate line as illustrated by the egg-cases of chimæroid fishes.
 Biol. Bull., VII, 105-112.
- 1906 A
 Notes on the living specimens of the Australian lungfish, *Ceratodus forsteri*, in the Zoological Society's collection.
 Proc. Zool. Soc. Lond., 1906, 168-178, pl. ix, text-figs 53-55.
- 1906 B
 Chimæroid fishes and their development.
 Publ. Carnegie Instn. Wash. No. 32, 1-194, pls. 1-xi, 144 text-figs.
 The extensive bibliography occupies pages 159-172.
 Reviewed in Amer. Naturalist, xli, 132-133; notice in Nature, lxxvi, 1907, 67; Rev. crit. Palæozool., xi, 90-93.
- 1907 A
 Dr. Eastman's recent papers on the kinship of the arthrodires.
 Science (n.s.), xxvi, 46-50
 Abstract in Rev. crit. Palæozool., xii, 86-90.
- 1907 B
 Notes on acanthodian sharks.
 Amer. Jour. Anat., vii, 209-222, 36 text-figs.
 Abstract in Rev. crit. Palæozool., xii, 17-19.
- 1908 A
 Studies on fossil fishes during the year 1907.
 Science (n.s.), xxvii, 201-205.
- Dean, Bashford—Continued 1909 A**
 The giant of ancient sharks.
 Amer. Mus. Jour., ix, 232-234, 1 fig.
 Abstract in Geol. Centralbl., xiv, 320.
- 1909 B
 A review of Gaskell's "The origin of the Vertebrata."
 Science (n.s.), xxix, 816-818.
- 1909 C
 Studies on fossil fishes (sharks, chimæroids and arthrodires).
 Mem. Amer. Mus. Nat. Hist., ix, 211-287, pls. xxvi-xli, 65 text-figs.
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 Abstracts in Geol. Centralbl., xv, 312; Rev. crit. Palæozool., 13, 211-213; Nature, lxxxv, 285.
- 1911 A
 Note on the Ohio placoderm *Dinichthys terrelli*.
 Science (n.s.), xxxiv, 801.
- 1911 B
 Collecting fossil fishes in Ohio.
 Amer. Mus. Jour., xi, 302-303, 2 figs.
- 1912 A
 Symposium on ten years progress in vertebrate paleontology. Paleozoic fishes.
 Bull. Geol. Soc. Amer., xxiii, 224-228.
 For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Eastman, Osborn, Williston and Sinclair.
- 1912 B
 Orthogenesis in the egg capsules of *Chimæra*.
 Bull. Amer. Mus. Nat. Hist., xxi, 35-40, 2 figs.
- 1914 A
 Recent and extinct fishes.
 Rep. Amer. Mus. Nat. Hist., xlv, 1913 (1914), 59-61.
 A report of progress in the department of ichthyology and herpetology.
- 1919 A
 Memorial of Charles Rochester Eastman.
 Bull. Geol. Soc. Amer., xxx, 27-36, portrait.
 On pages 31-36 is a list of Eastman's published papers, more than 100 in number.
- 1923 A
 The department of fishes, American Museum; its aims and achievements.
 Nat. Hist., xxxii, 606-615, with figs.

- Dean, B., and R. Eastman** 1916 A
A bibliography of fishes.
Vol. I, A-K, i-xi+1-718 pages.
Published by the American Museum of Natural History.
See Finding Index on pages 667 to 707 of volume III.
- , — 1917 A
A bibliography of fishes.
Vol. II, L-Z, i-vi+1-701 pages.
Published by the American Museum of Natural History, New York.
See Finding Index on pages 667 to 707 of volume III.
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1908 A

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1909 B

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1909 C

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1910 A

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1902 I
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Mem. Mus. Comp. Zool., xxvi, 179-189, pls. i-iii, 5 text-figs.; Rev. crit. Paléozoöl., vii, 195.

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1903 B
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Mark Anniversary Volume, 279-289, pl. xxi.

Abstracts in Geol. Centralbl., vii, 621; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 151.

1903 E
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1904 A
Earliest notice of American Proboscidea.

Science (n.s.), xx, 890.

1904 B
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Amer. Jour. Sci. (4), xviii, 253-260, 6 text-figs.

Abstract in Geol. Centralbl., vi, 719; Rev. crit. Paléozoöl., ix, 10.

1904 C
Asterolepid appendages.

Amer. Jour. Sci. (4), xviii, 141-144.

Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 160; Rev. crit. Paléozoöl., ix, 10.

1904 D
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Amer. Naturalist, xxxviii, 669-672, 1 text-fig.

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1904 E
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Amer. Naturalist, xxxviii, 295-299, 2 text-figs.

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1904 F
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Science (n.s.), xix, 703-704.

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 Science (n.s.), xx, 465-466.
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 Science (n.s.), xx, 648-649.
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 A brief general account of fossil fishes.
 Rep. Geol. Surv. New Jersey, 1904 (1905), 27-66, 8 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, II, Ref., 442; Geol. Centralbl., xi, 333-334; Rev. crit. Paléozool., x, 32; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 156.
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 Rep. Geol. Surv. New Jersey, 1904 (1905), 67-130, pls. i-xiv, text-figs. 9-13.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, II, Ref., 442; Geol. Centralbl., xi, 334; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 156.
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 The literature of *Edestus*.
 Amer. Naturalist, xxxix, 405-409.
 Abstract in Geol. Centralbl., viii, 379.
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 Dipnoan affinities of arthrodires.
 Amer. Jour. Sci. (4), xxi, 131-143, 4 text-figs.
 Abstracts in Geol. Centralbl., viii, 380; Nature, lxxiii, 1906, 422; Rev. crit. Paléozool., x, 207; Sci. Progress, i, 463.
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 Science (n.s.), xxxiii, 290.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), xii, pt. 3, 159.
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 Sermons in stomach stones.
 Science (n.s.), xxxiii, 933.
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- 1906 D**
 Structure and relations of *Mylostoma*.
 Bull. Mus. Comp. Zool., I, 1-29, pls. i-v, 8 text-figs.
 Abstracts in Geol. Centralbl., xi, 475; Rev. crit. Paléozool., xi, 17-19; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 157.
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- Eastman, C. R.—Continued 1906 E**
 Sharks' teeth and cetacean bones.
 Bull. Mus. Comp. Zool., I, 74-98, pls. i-iii, 7 text-figs.
 Abstract in Rev. crit. Paléozool., xi, 73, 88.
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 Mylostomid dentition.
 Bull. Mus. Comp. Zool., I, 209-228, pl. xix, 4 text-figs.
 Abstract in Rev. crit. Paléozool., xi, 229.
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- 1907 B**
 Devonian fishes of the New York formations.
 Ann. Rep. N. Y. State Mus., 60, v; memoir 10, 1-235, pls. i-xv, 34 text-figs.
 Abstracts in Amer. Jour. Sci., 1907 (4), xxiv, 443-445; Neues Jahrb. Min. Geol. Pal., 1908, II, Ref., 443-446; Geol. Centralbl., xi, 475-477; Sci. Progress, II, 521-522; Rev. crit. Paléozool., xii, 14-17.
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- 1907 C**
 Types of fossil cetaceans in the Museum of Comparative Zoology.
 Bull. Mus. Comp. Zool., I, 77-94, pls. i-iv, 2 text-figs.
 Abstracts in Geol. Centralbl., xii, 220; Rev. crit. Paléozool., xii, 3.
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- 1908 A**
 Devonian fishes of Iowa.
 Iowa Geol. Surv., xviii, 29-386, pls. i-xvi, 41 text-figs.
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- 1908 B**
 Notice of a new *œlacanth* fish from the Iowa Kinderhook.
 Jour. Geol., xvi, 357-362, 1 text-fig.
 Abstract in Geol. Centralbl., xiii, 204; Rev. crit. Paléozool., xiii, 85.
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- 1908 C**
 Discovery of a new species of *œlacanthus*.
 Science (n.s.), xxvii, 355.
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- 1909 A**
 A new species of *Helodus*.
 Ann. Carnegie Mus., v, 488-489.
 Abstracts in Geol. Centralbl., xiv, 488; Rev. crit. Paléozool., xvii, 140.
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- 1909 B**
 Mylostomid dental plates.
 Science (n.s.), xxxix, 997-998.
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- 1909 C**
 Mylostomid palatal dental plates.
 Bull. Mus. Comp. Zool., LI, 261-269, 3 text-figs.

- Eastman, C. R.—Continued 1911 A**
 Triassic fishes of Connecticut.
 Bull. Geol. Nat. Hist. Surv. Conn., xviii, 1-77, pls. 1-xi, 8 text-figs.
 Abstracts in Geol. Centralbl., xix, 569, 703; Rev. crit. Paléozool., xvii, 141.
 Review in Jour. Geol., xxi, 377.
- 1911 B
 Jurassic saurian remains ingested within fish.
 Ann. Carnegie Mus., viii, 182-187, pls. x, xi.
 Abstract in Geol. Centralbl., xix, 444.
- 1911 C
 Catalog of fossil fishes in the Carnegie Museum. Part I: Fishes from the Upper Eocene of Monte Bolca.
 Mem. Carnegie Mus., iv, 349-391, pls. xc-ci, 5 text-figs.
- 1912 A
 Symposium on ten years progress in vertebrate paleontology. Mesozoic and Cenozoic fishes.
 Bull. Geol. Soc. Amer., xxiii, 228-232.
 Abstract in Sci. Progress, viii, 21.
 For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Osborn, Williston and Sinclair.
- 1912 B
 Tertiary fish-remains from Spanish Guinea in West Africa.
 Ann. Carnegie Mus., viii, 370-378, pls. xxiii-xxiv.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 478-479; Sci. Progress, viii, 231.
- 1912 C
 Palæontology.
 Amer. Year Book (1911), 656-660.
- 1913 A
 Brain structures of fossil fishes from the Caney shales.
 Bull. Geol. Soc. Amer., xxiv, 119-120.
 Abstract.
- 1913 B
 Palæontology.
 Amer. Year Book (1912), 676-678.
- 1914 A
 Notes on Triassic fishes belonging to the families Catopteridæ and Semionotidæ.
 Ann. Carnegie Mus., ix, 139-148, pls. xxx-xxxii.
 Abstract in Rev. crit. Paléozool., xx, 142.
- 1914 B
 Palæontology.
 Amer. Year Book (1913), 687-690.
- Eastman, C. R.—Continued 1915 A**
Dipterus remains from the Upper Devonian of Colorado.
 Ann. Carnegie Mus., ix, 279-283, 4 text-figs.
 Abstracts in Rev. crit. Paléozool., 141; Geol. Zentralbl., xxix, 188.
- 1915 B
 Report of investigation on Palæozoic fishes.
 Ann. N. Y. Acad. Sci., xxvi, 439-440.
- 1915 C
 Palæontology.
 Amer. Year Book (1914), 657-659.
- 1916 A
 Palæontology.
 Amer. Year Book, 1915, 654-656.
- 1916 B
 Recent progress in vertebrate paleontology. Fishes.
 Science (n.s.), xliii, 103-105.
- 1917 A
 Fossil fishes in the collection of the United States National Museum.
 Proc. U. S. Nat. Mus., lxi, 235-304, pls. i-xxiii, 9 text-figs.
 Note on, in Nature, cxix, 330.
 Abstracts in Rev. crit. Paléozool., xxii, 4; Geol. Mag. (6), iv, 223-224; Ann. N. Y. Acad. Sci., xxvi, 439-440; Neues Jahrb. Min. Geol. Pal., 1922, I, Ref., 131.
- 1917 B
 Palæontology.
 The Amer. Year Book (1916), 654-657.
- 1917 C
Campodus and *Edestus*.
 Bull. Geol. Soc. Amer., xxviii, 214 (abstract).
- , and E. H. Barbour 1902 A
 Synopsis of the Missourian and Permo-Carboniferous fish fauna of Kansas and Nebraska.
 Science (n.s.), xvi, 266-267.
 A brief abstract.
- , Gregory, and Matthew 1917 A
 Recent progress in paleontology.
 Science (n.s.), xlv, 117-121.
- Eaton, G. F. 1903 A**
 Notes on the collection of Triassic fishes at Yale.
 Amer. Jour. Sci. (4), xv, 259-268, pls. v, vi.
 Abstracts in Geol. Centralbl., v, 43; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 152.

Eaton, G. F.—Continued

1903 B

The characters of Pteranodon.

Amer. Jour. Sci. (4), xvi, 82-86, pls. vi, vii.

Abstracts in Geol. Centralbl., v, 42; Neues Jahrb. Min. Geol. Pal., 1905, i, 517.

1904 A

Characters of Pteranodon (second paper).

Amer. Jour. Sci. (4), xvii, 318-320, pls. xix, xx.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 2, 172; Geol. Centralbl., vii, 427.

1905 A

Occurrences of Mastodon humboldti in northern Mexico.

Amer. Jour. Sci. (4), xix, 330.

1908 A

The skull of Pteranodon.

Science (n.s.), xxvii, 254-255

1910 A

Osteology of Pteranodon.

Mem. Conn. Acad. Sci., ii, 1-38, pls. i-xxxi.

Abstracts in Amer. Jour. Sci. (4), xxxi, 148-150; Geol. Centralbl., xvii, 335; Sci. Progress, v, 677; Neues Jahrb. Min. Geol. Pal., 1912, i, Ref., 143-145; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 210; Nature, lxxxix, 123, fig.

1914 A

Vertebrate fossils from Ayusbamba, Peru.

Amer. Jour. Sci. (4), xxxvii, 141-154, pls. v-vii, 7 text-figs.

1922 A

John Day Felidae in the Marsh collection.

Amer. Jour. Sci. (5), iv, 425-452, 12 figs.

Review in Rev. crit. Paléozool., xxviii, 164, 1924.

Abstract in Geol. Zentralbl., xxix, 222.

1923 A

Vertebrate fossils from Mina Erupcion.

Amer. Jour. Sci. (5), vi, 229-238, 9 figs.

Abstract in Geol. Zentralbl., xxx, 538.

Eberlein, R.

1910 A

Ueber polydaktylie beim Pferde.

Arch. wiss. u. prakt. Tierheilk., xxxvi, Suppl. Bd., 72-82, pls. 1-v.

The bibliography presents 62 titles.

Ebner, V.

1889 A

Urwirbel und Neugliederung der Wirbelsäule.

Sitz.-Ber. Akad. Wiss., Wien, xcvi, 194-206, pls. i, ii.

1896 A

Über die Wirbel der Knochenfische und die Chorda dorsalis der Fische und Amphibien.

Sitz.-Ber. Akad. Wiss. Wien, cv, Abth. iii, 123-161, pls. 1-iv, 1 text-fig.

Appended is a bibliography of 35 titles.

1906 A

Über die histologischen Veränderungen des Zahnschmelzes während der Erhärtung, insbesondere beim Menschen.

Arch. mikr. Anat., lxvii, 18-81, pls. ii-v.

There is a bibliography consisting of 32 titles.

1909 A

Ueber scheinbare und wirkliche Radiärfasern des Zahnbeines.

Anat. Anz., xxxiv, 289-309, 9 text-figs.

For a rejoinder to this paper see Korff, K., 1909 A.

Edgeworth, F. H.

1907 A

The development of the head-muscles in Gallus domesticus, and the morphology of the head-muscles in the Sauropsida.

Quart. Jour. Micr. Sci. (n.s.), li, 511-556, 39 figs.

The bibliography records 27 titles.

1920 A

On the development of the hypobranchial and laryngeal muscles in Amphibia.

Jour. Anat. Lond., liv, 125-162, 15 pls.

In the bibliography are recorded 38 titles.

1923 A

Note on the development of the quadrate and epiphyal of Ceratodus.

Quart. Jour. Micr. Sci. (n.s.), lxvii, 350-368, figs. 31-39.

Four titles form the bibliography.

1923 B

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Die fossilen Krokodile des weissen Jura.
Jahresh. Ver. Naturk., Württemb., LVII, cxxvi.

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Jahresh. Ver. Naturk., Württemb., LVII, 409-418.

Abstract in Geol. Centralbl., II, 510.

1901 D

Labyrinthodon aus dem Buntsandstein von Teinach.

Jahresh. Ver. Naturk., Württemb., LVII, 318-320, 1 fig.

1902 A

Wild-West, Reiseerinnerungen eines Geologen an die amerikanischen Felsengebänge und Prairien.

Die Gartenlaube, Feb. 4, 1902, 76-80, 4 illustrations.

A popular account of the author's journey.

1902 B

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Palaeontogr., XLIX, 1-72, pls. i-viii, 7 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 98-101.

1902 C

Geologische Streifzüge durch die Prärien und Felsengebänge Nordamerikas.

Jahresh. Ver. Naturk., Württemb., LVIII, lxx-lxviii.

1903 A

Thalassemys marina E. Fraas aus dem oberen weissen Jura von Schnaitheim nebst Bemerkungen über die Stammesgeschichte der Schildkröten.

Jahresh. Ver. Naturk., Württemb., LIX, 72-104, pls. i-iii, 3 text-figs.

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1904 A

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1904 B

Weitere Beiträge zur Fauna des Jura von Nordost-Grönland.

Meddelelser om Grönland, XXX, pt. 8, 277-285, 4 text-figs.

Briefly noted by R. Lydekker in Knowl and Scient. News, II, 220.

Fraas, E.—Continued 1904 C

Vergleichung der amerikanischen und europäischen Juraformation.

Internat. Amerikanisten-Kongr., Stuttgart, 1904, Tag. XIV, 41-45.

1905 A

Zur Stammesgeschichte der Walfische.

Jahresh. Ver. Naturk., Württemb., LXI, lxxiii.

1905 B

Reptilien und Säugetiere in ihren Anpassungserscheinungen an das marine Leben.

Jahresh. Ver. Naturk., Württemb., LXI, 347-386, 5 text-figs.

Résumé in Ann. Soc. Zool. Belgique, XL, Bull., xcvi-cxvi.

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1907 A

Säge von *Proprius schweinfurthi* Dames aus dem oberen Eocän von Ägypten.

Neues Jahrb. Min. Geol. Pal., 1907, I, 1-6, pl. 1.

Abstracts in Geol. Centralbl., x, 330; Sci. Progress, II, 523.

1907 B

Aëtosaurus crassicauda n. sp., nebst Beobachtungen über das Becken der Aëtosaurier.

Jahresh. Ver. Naturk., Württemb., LXIII, 101-109, pls. i, ii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, II, Ref., 436-437; Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 168; Sci. Progress, II, 515.

1908 A

Ostafrikanische dinosaurier.

Palaeontogr., LV, 105-144, pls. vii-xii, 6 text-figs.

Abstract in Nature, LXXIX, 166.

1910 A

Plesiosaurier aus dem oberen Lias von Holzmaden.

Palaeontogr., LVII, 105-140, pls. vi-x, 11 text-figs.

See Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 139-141, for an abstract.

1910 B

Alte und neue Dinosaurier-Funde.

Jahresh. Ver. Naturk., Württemb., LXVI, xciii-xciv.

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Embryonaler Ichthyosaurus mit Hautbekleidung.
 Jahresh. Ver. Naturk., Württemb., LXVII, 480-487, 5 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 477; Geol. Centralbl., XVIII, 46; Nature, LXXXVII, 197, 4 figs.
- 1911 B
 Die ostafrikanische Dinosaurier.
 Verh. Ges. deutsch. Naturf., LXXXIII, pt. 1, 27-41.
- 1912 A
 The hugest mammoth ever exhumed.
 Scient. Amer. Suppl., LXXIII, 325.
- 1913 A
 Neue Labyrinthodonten aus der schwäbischen Trias.
 Palaeontogr., LX, 275-294, pls. xvi-xxii, 5 text-figs.
- 1913 B
Proterochersis, eine pleurodire Schildkröte aus dem Keuper.
 Jahresh. Ver. Naturk., Württemb., LXIX, 13-30, pls. iii, iv, 9 text-figs.
 This paper forms No. 80 of the Mitt. Nat. Kab. Stuttgart.
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 Ein unverdrückter *Ichthyosaurus*-Schädel.
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 Über das Massensterben unter den Tieren und dessen Bedeutung für die Paläontologie.
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Squatina acanthoderma. Der Meerengel von Nusplingen.
 Zeitschr. deutsch. Geol. Ges., VI, 782-799, pls. xxvii-xxix.
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 Sur les ostracophores belges. (Réponse à M. M. Leriche.)
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 Observations sur les grands félidés pléistocènes.
 Bull. Acad. Sci. Belgique (5), VIII, 577-580.
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 Notes de craniologie comparée.
 Ann. Sci. nat. (8), XVII, 143-363, pls. iii-xxii, 53 text-figs.
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 Lo scheletro degli arti nell' uomo e nei vertebrati. Filogenesi ed ontogenesi.
 Bologna, 1915, Labreria editrice Lucino Cappelli, 1-163 pages, 95 text-figs.
- Frech, Fritz** 1897 A
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 Über die Gründe des Aussterbens der vorzeitlichen Tierwelt.
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 Ueber die Klima-Änderungen der geologischen Vergangenheit.
 C. R. Congr. internat. geol., Mexico, 1906, x, 299-325.
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 Die Fährten von *Chirotherium*.
 Neues Jahrb. Min. Geol. Pal., 1919, I, 109.
 Abstract of a dissertation by Karl Willruth Halle (Saale), 1917, 48 pages, 4 pls.
- , and **Geinitz (Eugen)** 1903 A
 Die Flora und Fauna des Quartärs.
Lethæa geognostica. Handb. d. Erdgeschichte. Edited by F. Frech, III Theil, II Bd, I Abth., 1-41, 12 pls., many text-figs.
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 Mammoth bones found in loess of Washington.
 Science (N. S.), LXIV, 477.
- Frets, G. P.** 1909 A
 Ueber die Varietäten der Wirbelsäule und ihre Erblichkeit.
 Anat. Anz. Ergänzungsh., XXXIV, 105-120, 4 text-figs.

Frets, G. P.—Continued 1910 A
Études sur les variétés de la colonne vertébrale.

Morphol. Jahrb., xli, 558-576, pls. x, xi, 4 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 100-101.

1912 A

Beiträge zur vergleichenden Anatomie und Ontogenie der Nase der Primaten. I: Nase bei einigen catarrhinen Affen, Säugern und dem Menschen.

Morphol. Jahrb., xlii, 409-463, 64 text-figs.

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1913 A

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Morphol. Jahrb., xlii, 557-726, pls. xviii-xx, 113 text-figs.

Freudentberg, Wilhelm 1910 A

Die Säugetierfauna des Pliocäns und Postpliocäns von Mexiko. I: Carnivoren.

Geol. Pal. Abh. Jena, ix (xiii), Heft 3, pls. i-ix, text-figs. 1-5; in complete volume, 193-231, pls. xx-xxviii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 311-312; Geol. Centralbl., xv, 721-722; Rev. crit. Paléozool., xv, 79; Sci. Progress, v, 667.

1911 A

Abstract of J. C. Merriam: Skull and dentition of an extinct cat closely allied to *Felis atrox* Leidy (Merriam, J. C., 1909 A).

Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 134.

1913 A

Elephas primigenius fraasi Dietrich und die schwäbische Hochterrasse.

Centralbl. Min. Geol. Pal., 1913, 475-480, 646-652.

1914 A

A. Lotichius: Der Säbeltiger.

Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 501.

Review of paper by Lotichius (Lotichius, A., 1914 A).

1921 A

Geologie von Mexico.

8vo., i-viii+1-222 pages, 2 pls., 23 text-figs., 1921, Berlin, Borntraeger.

Freudentberg, Wilhelm—Cont'd 1922 A

Die Säugetierfauna des Pliocäns und Postpliocäns von Mexico. II Teil: Mastodonten und Elephanten.

Geol. Pal. Abh. Jena, xiv (xviii), Heft 3, 1-76, pls. i-ix, text-figs. 1-28.

The literature is cited in foot-notes.

1923 A

Plastische Rekonstruktion des Urmenschen von Heidelberg (*Homo heidelbergensis*).

Verh. Anat. Ges., xxxii, 122-129, 2 figs.

Followed by a discussion by Fischer, Stieve, Bluntzli, Weidenreich, Grosser, Lubosch, Aichel, Maurer.

1926 A

Über *Elephas trogontherii* Pohl.

Palaeont. Zeitschr., viii, 68-69.

Freund, L. 1902 A

Bemerkungen über den Bau der Mittelhand.

Verh. Ges. deutsch. Naturf., 74ste Vers., 2ter. Teil., 1stes Heft, 162-164.

1904 A

Die Osteologie der *Halicoreffosse*.

Zeitschr. wiss. Zool., lxxvii, 363-397, pls. xiv, xv, 4 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 116-117.

1905 A

Das Sternum von *Halicore dugong*.

Zeitschr. Morphol. Anthrop., viii, 425-438, pls. xxviii, xxix, 1 text-fig.

1906 A

Die Hyperdaktylie.

Zeitschr. Tiermedizin, x, 110-117

1908 A

Beiträge zur Entwicklungsgeschichte des Schädels von *Halicore dugong* Erxl.

Semon's "Zool. Forschungsreisen," iv, Lfg. 4 (Denk. med. Ges. Jena, vii), 557-626, 50 text-figs.

Appended is a bibliography of 21 titles.

1911 A

Zur Morphologie des harten Gaumens der Säugetiere.

Zeitschr. Morphol. Anthrop., xiii, 377-394, pl. xiv, 4 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 37.

1912 A

Zur Morphologie des harten Gaumens der Säugetiere.

Verh. internat. Zool.-Kongr., Graz, viii, 1910, 557-558, 1 text-fig.

1913 A

Neues über Sirenen.

Naturwiss. Berlin, i, 253-261, 2 figs.

- Freund, L.**—Continued 1914 A
Beiträge zur Entwicklungsge-
schichte der Sirenen.
Morphol. Jahrb., XLIX, 353-388, pl. xvi,
22 text-figs.
- 1914 B
Neues über die Skelettentwicklung
bei den Sirenen.
Verh. Ges. deutsch. Naturf., LXXXV, Wien,
1913, Th. 2, Häfte 1, 706.
- Freund, Paul** 1892 A
Beiträge zur Entwicklungsge-
schichte der Zahnanlagen bei Nage-
thieren.
Arch. mikr. Anat. Bonn., XXXIX, 525-555,
pls. xxii, xxiii
- 1893 A
Contributions to the development of
the tooth-rudiments in rodents.
Ann. Mag. Nat. Hist. (6), xi, 301-327.
Citation of the literature in foot-notes.
- Frey, Hugo** 1911 A
Vergleichend-anatomische Studien
über die Hammer-Amboss-Verbindung
der Säuger.
Anat. Hefte Arb., XLIV, 363-437, pls. xiv
xxiv.
There is a bibliography of 26 titles.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xv, pt. 3, 38-40.
- Frick, Childs** 1918 A
Fauna of the Bautista badlands.
Bull. Geol. Soc. Amer., XXIX, 163 (ab-
stract).
- 1921 A
Extinct vertebrate faunas of the
badlands of Bautista Creek and San
Timoteo Cañon, southern California.
Bull. Dept. Geol. Univ. Calif., XII, 277-
424, pls. xliii-1, 165 text-figs.
Abstracts in Rev. crit. Paléozool., XXVI,
134; Geol. Zentralbl., XXIX, 443-444.
- 1926 A
The Hemicyoninae and an American
Tertiary bear.
Bull. Amer. Mus. Nat. Hist., LVI, 1-119,
frontispiece, 3 tables, 62 text-figs.
Throughout this paper are numerous cita-
tions of the literature.
- 1926 B
Tooth sequence in certain trilophod-
ont tetrabelodont mastodons and
*Trilophodon (Serridentinus) pojoaqu-
ensis*, new species.
Bull. Amer. Mus. Nat. Hist., LVI, 122-176,
27 figs.
- 1926 C
Prehistoric evidence.
Nat. Hist., XXVI, 440-443, 3 figs.
- Friedmann, Emil** 1897 A
Beiträge zur Zahnentwicklung der
Knochenfische.
Morphol. Arbeit., VII, 546-582, 16 text-figs.
There is presented a bibliography of 32
titles.
- Fries, B. Fr.** 1838 A
Ichthyologische Beiträge zur skan-
dinavischen Fauna. Das Geschlecht
Syngnathus.
Arch. Naturges., IV, 1, 237-250, pl. vi.
- 1838 B
Metamorphose, bemerkt bei der
kleinen Meerndel (*Syngnathus lum-
briciformis*).
Arch. Naturges., IV, 1, 251-256, pl. vi.
- Fries, C.** 1924 A
Zur Phylogenie des Schildkröten-
panzers.
Zool. Anz., LXI, 277-280.
- Fritsch, A.** 1879 A
Review of Gaudry's "Sur les rep-
tiles des temps primaires" (Gaudry
A., 1878 A).
Neues Jahrb. Min. Geol. Pal., 1879, 720.
- 1889 B
Abstract in Geol. Mag. (3), v, 523; (3),
VIII, 375-378, 2 figs.
- 1895 A
Abstract in Geol. Mag. (4), II, 40; (4),
III, 83
- Froriep, August** 1883 A
Zur Entwicklungsgeschichte der
Wirbelsäule, insbesondere des Atlas
und Epistropheus und der Occipital-
region. I: Beobachtung an Hühner-
embryonen.
Arch. Anat. Entwickl., 1883, 177-234, pls.
VII-IX; text-figs. 1-8.
There is a bibliography of 27 titles
- 1886 A
Zur Entwicklungsgeschichte der
Wirbelsäule, insbesondere des Atlas
und Epistropheus und der Occipital-
region. II: Beobachtung an Säuger-
thiere-embryonen.
Arch. Anat. Entwickl., 1886, 69-150, pls.
i-III, 8 text-figs.
The bibliography includes 19 titles.
- 1887 A
Bemerkungen zur Frage nach der
Wirbeltheorie des Kopfskelettes.
Anat. Anz., II, 315-335.

- Forriep, August**—Continued 1902 A
Zur Entwicklungsgeschichte des Wirbeltierkopfes.
Verh. Anat. Ges., xv, Bonn, 34-46, 5 text-figs.
- 1905 A
Sur la genèse de la partie occipitale du crâne.
C. R. Assoc. Anatomistes, vii, 156-157.
- 1905 B
Die occipitalen Urwirbel der Amnioten im Vergleich mit denen der Selachier.
Verh. Anat. Ges., xix, Genf, 111-120, 4 text-figs.
- Frost, Frederick H.** 1927 A
Statistical identification as applied to *Parapavo*.
Bull. Dept. Geol. Univ. Calif., xvii, 57-62.
- Frost, George Allan** 1913 A
The internal cranial elements and foramina of *Dapedius granulatus*, from a specimen recently found in the Lias at Charmouth.
Quart. Jour. Geol. Soc., lxxix, 219-222, 2 text-figs.
For review see Geol. Mag. (5), x, 234.
- 1925 A
A comparative study of the otoliths of the neopterygian fishes.
Ann. Mag. Nat. Hist. (9), xv, 152-163, 553-561, pls. xi-xiii, xxix.
- 1926 A
A comparative study of the otoliths of the neopterygian fishes (continued). Orders Haplomi, Heteromi, Incomi, Hypostomides, Salmoperceæ, Syntognathi, Microcyprini, Solenichthyes, Anacanthini.
Ann. Mag. Nat. Hist. (9), xviii, 465-490, pls. xx-xxii.
- 1927 A
A comparative study of the otoliths of the neopterygian fishes (continued). Orders Allotriognathi, Berycomorphi.
Ann. Mag. Nat. Hist. (9), xix, 439-445, pl. viii.
- Fry, Edward** 1850 A
Remarks on the morphology of the vertebrate skeleton.
Proc. Zool. Soc. Lond., xviii, 15-22.
- Fryd, Carlos** 1901 A
Die Otolithen der Fische in Bezug auf ihre Bedeutung für Systematik und Altersbestimmung.
Christ.-Albr.-Univ., Kiel. Inaug. Dissert., 1-54, 16 text-figs.
- Fryxell, F. M.** 1926 A
A horn of the prong-horn antelope (*Antilocapra americana*) found at Moline, Illinois.
Jour. Mamm., vii, 333-334.
- Fuchs, Hugo** 1905 A
Spezielle Anatomie und Entwicklungsgeschichte des Menschen und der Wirbeltiere. IV: Skeletsystem. A. Kopfskelet.
Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 33-91.
Pages 23-39 are occupied by a bibliography of the recent literature of the subject. The remainder of the paper consists of abstracts of the papers listed.
- 1905 B
Bemerkungen über die Herkunft und Entwicklung der Gehörknöchelchen bei Kaninchen-Embryonen (nebst Bemerkungen über die Entwicklung des Knorpelskeletes der beiden ersten Visceralbogen).
Arch. Anat. Entwickl., 1905, 1-178, pls. i-iv. References to other authors in foot-notes.
- 1906 A
Untersuchungen über die Entwicklung der Gehörknöchelchen des Squamosums und des Kiefergelenkes der Säugertiere, nebst einigen vergleichend-anatomischen Betrachtungen über Articulare, Quadratum und Gehörknöchelchen.
Arch. Anat. Physiol. Leipzig, Supplem. Bd., 1906, 1-89, pls. i-vi, 4 text-figs.
For "Nachtrag" see Archiv, 1906, 117-118; also Anat. Anz., xxviii, 317-318.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xii, pt. 3, 46-50.
- 1907 A
Über die morphologische Bedeutung des Squamosums am Säugetierschädel.
Zetschr. Morphol. Anthropol., x, 147-170, pl. xi, 2 text-figs.
References are made to works of other authors.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xii, pt. 3, 50-51.
- 1907 B
Untersuchungen über Ontogenie und Phylogenie der Gaumenbildungen bei den Wirbeltieren. I: Über den Gaumen der Schildkröten und seine Entwicklungsgeschichte.
Zetschr. Morphol. Anthropol., x, 400-463, pls. xx, xxi, 8 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 49-51.

Fuchs, Hugo—Continued 1907 C

Ueber die Entwicklung des Operculums der Urodelen und des Distelidiums ("Columella" auris) einiger Reptilien.

Anat. Anz. Ergänzungsh., xxx, 8-34, pls. i, ii, 5 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 48.

1907 D

Ueber das Hyobranchialskelett von *Emys lutaria* und seine Entwicklung.

Anat. Anz., xxxi, 33-39, 5 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 48.

1908 A

Ueber das Vorkommen selbständiger knöcherner Epiphysen bei Sauripsiden.

Anat. Anz., xxxii, 352-360, 4 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 120

1908 B

Ueber einen Rest des Parasphenoids bei einem rezenten Säugetiere.

Anat. Anz., xxxii, 584-590, 3 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 50.

1908 C

Untersuchungen über Ontogenie und Phylogenie der Gaumenbildungen bei den Wirbeltieren. II: Über das Munddach der Rhynchocephalen, Saurier, Schlangen, Krokodile und Säuger und den Zusammenhang zwischen Mund- und Nasenhöhle bei diesen Tieren.

Zeitschr. Morphol., Anthropol., xi, 153-248, pls. vi-viii, 23 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 47-50.

1909 A

Ueber die morphologische Bedeutung der Sacralrippen.

Anat. Anz., xxxiv, 349-356, 526, 2 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 104-108.

1909 B

Betrachtungen über die Schläfengegend am Schädel der Quadrupeda.

Anat. Anz., xxxv, 113-167, 25 text-figs.

1909 C

Ueber die Entwicklung einiger Deckknochen (Vomer, Pterygoid, Maxillare) bei Säugetieren (und ihr Verhältnis zum Knorpelskelette).

Anat. Anz. Ergänzungsh., xxxiv, 85-104, pl. i, 12 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 45-49.

Fuchs, Hugo—Continued 1909 D

Beiträge zur Entwicklungsge-
schichte und vergleichenden Anatomie
des Brustschulterapparates der Wirbel-
tiere.

Zeitschr. Morphol. Anthropol., ii, 141-236,
pls. vi-ix, 4 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 166-168.

1910 A

Ueber das Pterygoid, Palatinum und Parasphenoid der Quadrupeden, insbesondere der Reptilien und Säugetiere, nebst einigen Betrachtungen über die Beziehungen zwischen Nerven und Skeletteilen.

Anat. Anz., xxxvi, 33-95, 45 text-figs.

For a reply to this paper see Gaupp, E., 1910 B.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 40-41.

1910 B

Bemerkungen über Monimostylie und Streptostylie. Einige berichtigende Bemerkungen zu der Versluys'schen Arbeit: "Streptostylie bei Dinosauriern, etc."

Anat. Anz., xxxvii, 250-256.

See Versluys, 1911 A, for rejoinder.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 41.

1910 C

Ueber die Homologie der Paukenhöhlen und das Verhältnis zwischen Nervenverlauf und Skelett. Erwiderung auf die Arbeit des Herrn Dr. O. Bender: "Nochmals die Homologie der Paukenhöhlen" (Anat. Anz., Bd. 37, 1910, No. 4/5).

Anat. Anz., xxxvii, 473-496.

1911 A

Ueber das Septomaxillare eines rezenten Säugetieres (*Dasypus*), nebst einigen vergleichend-anatomischen Bemerkungen über das Septomaxillare und Praemaxillare der Amnioten überhaupt.

Anat. Anz., xxxviii, 33-55, 16 text-figs.

For a review see Naturw. Wochenschrift, xxvi, 1911, 433; Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 40; Nature, lxxxvii, 197.

Fuchs, Hugo—Continued

1911 B

Über die Beziehungen zwischen den Theromorphen Cope's und den Säugetieren, erörtert auf Grund der Schädelverhältnisse (nebst einem weiteren Beitrag zur Frage der Homologie des Kiefergelenkes und der morphologischen Bedeutung des Squamosums).

Zeitschr. Morphol. Anthropol., xiv, 367-438, 65 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 442; Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 43.

1911 C

Bemerkungen über das Munddach der Amnioten, insbesondere der Schildkröten und Schlangen.

Anat. Anz., xxxviii, 609-637, 52 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 41-42.

1911 D

Über correlative Beziehungen zwischen Zungen und Gaumenentwicklung der Säugerembryonen, nebst Betrachtungen über Erscheinungsformen progressiver und regressiver Entwicklung.

Zeitschr. Morphol., Anthropol., xliii, 97-130, 30 text-figs.

1912 A

Ueber die Struktur des Reptiliengebisses und die Beziehung desselben zum Säugegebiss.

Anat. Anz. Ergänzungsh., xli, 68.

1912 B

Ueber einige Ergebnisse meiner Untersuchungen über die Entwicklung des Kopfskelettes von *Chelone imbricata* (Material Voeltzkow).

Anat. Anz. Ergänzungsh., xli, 81-106, 18 text-figs.

Followed by a list of 24 titles of papers pertaining to the subject discussed.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 52-55.

1912 C

Bemerkungen über das Gebiss des *Erinaceus europæus*, gegründet auf das Fehlen eines unteren Incisivus.

Zeitschr. Morphol., Anthropol., xiv, 507-536, 4 text-figs.

Fuchs, Hugo—Continued

1912 D

Über Knorpelbildung in Deckknochen, nebst Untersuchungen und Betrachtungen über Gehörknöchelchen, Kiefer und Kiefergelenk der Wirbeltiere.

Arch. Anat. Entwickl., 1-256, pls. i-iv, 57 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 49-59.

1913 A

Zur Richtigstellung. Erwiderung an Herrn Dr. O. Bender in München, in Sachen der Columella und Bicolumella auris.

Anat. Anz., xliii, 59-64, 284-286.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 61.

1913 B

Zur Antwort O. Benders.

Anat. Anz., xliii, 301-303.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 61.

1914 A

Zur Entwicklungsgeschichte der Zahnform und deren Anwendung auf das Primatengebiss.

Deutsche Monatsschr. Zahnheilk., xxxii, 24-44.

1915 A

Structure and development of the skull of *Chelone imbricata*.

4to., Stuttgart, 325 pages. In German (Not seen).

1920 A

Über die Verknöcherung des Innenskeletes am Schädel der Seeschildkröten, nebst Bemerkungen über das geschlossene Schläfendach.

Anat. Anz., lxi, 353-389, 449-479, 24 figs.

1920 B

Über die Verknöcherung der Innenskeletts am Schädel der Seeschildkröten, nebst Bemerkungen über das geschlossene Schläfendach (Fortsetzung).

Anat. Anz., lxi, 1-36; 353-371.

The bibliography presents 56 titles.

1920 C

Die Homologie der Wirbeltiere.

Verh. Anat. Ges., xxix, 92-94 (Discussion).

- Fuchs, Hugo**—Continued 1922 A
 Beiträge zur Entwickelungsgeschichte und vergleichenden Anatomie des Brustschulterapparates der Wirbeltiere; Schultergürtel der Anura
 Zeitschr. Morphol. Anthropol., **xxii**, 283-328, pls. 1, ii, 3 text-figs.
 The bibliography is found on pages 326-327.
- 1926 A
 Beiträge zur Entwickelungsgeschichte und vergleichende Anatomie des Brust-Schultergürtels der Wirbeltiere.
 Verh. Anat. Ges., **xxxv**, 119-138, 6 figs.
 In the bibliography are 14 titles.
- 1926 B
 Beiträge zur Entwickelungsgeschichte und vergleichenden Anatomie des Brustschultergürtels der Wirbeltiere. Fünfte Mitteilung.
 Anat. Anz., **lxi**, 1-34, 4 figs.
- Fuchs, Theodor** 1900 A
 Über die Natur der Edestiden, mit besonderer Rücksicht auf die Gattung *Helicoprion*.
 Sitz.-Ber. Akad. Wiss. Wien., **cix**, Abth. 1, 5-9, 1 plate, 3 text-figs.
 Abstracts in Geol. Centralbl., **ii**, 315; Neues Jahrb. Min. Geol. Pal., 1905, **ii**, Ref., 132; Rev. crit. Paléozool., **v**, 69.
- 1901 A
 Ueber *Dæmonhelix krameri* Ammon.
 Verhandl. geol. Reichsanst., 1901, 171-172.
- Fürbringer, Karl** 1903 A
 Beiträge zur Kenntnis des Visceralskeletes der Selachier.
 Morphol. Jahrb., **xxx**i, 360-445, pls. xvi-xviii.
 Appended is a bibliography of 65 titles.
- 1904 A
 Notiz über einige Beobachtungen am Dipnoerkopf.
 Anat. Anz., **xxiv**, 405-408.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), **x**, Abth. 3, 58-59.
- 1904 B
 Beiträge zur Morphologie des Skelettes der Dipnoer, nebst Bemerkungen über Pleuracanthiden, Holocephalen, und Squaliden.
 Denk. med.-naturw. Ges. Jena, **iv**, 423-510, pls. xxxvii-xli, 38 text-figs. (=Semons "Zool. Forschungs. in Austral.," vol. 1, 423-510).
 The bibliography comprises 85 titles.
 Abstract in Jahresber. Anat., Entwickl. (N.F.), **x**, Abt. 3, 97-98.
- Fürbringer, Max** 1902 A
 Morphologische Streitfragen. II: Rabl's Methode und Behandlung der Extremitätenfrage.
 Morphol. Jahrb., **xxx**, 144-274.
 Appended is a list of 297 titles of papers on the subject treated.
- 1902 B
 Zur vergleichenden Anatomie des Brustschulterapparates und der Schultermuskeln.
 Jena. Zeitschr. Naturwiss., **xxxvi**, 289-736q, pls. xviii-xxii, text-figs. 180-262.
 This paper deals principally with the anatomy of the muscles and nerves of birds. On pages 597-599 are cited treatises which deal more especially with the osteology of birds.
- 1903 A
 Notiz über oberflächliche Knorpel-elemente im Kiemenskelet der Rochen (Extraseptalia), zugleich nach von J. Ed. Stumpff gemachten Beobachtungen.
 Morphol. Jahrb., **xxxi**, 623-627, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), **x**, Abth. 3, 59.
- 1904 A
 Zur Frage der Abstammung der Säugetiere.
 Denk. med.-naturw. Ges. Jena, **xi**, Festschr. 70sten. Geburtst. Ernst Haeckel, 571-604.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), **x**, Abth. 3, 59-61.
- 1905 A
 Die Homologie des Unterkiefers in der Wirbeltierreihe.
 Anat. Anz. Ergänzungsh., **xxvii**, 17.
 Brief remarks in discussion.
- Fuller, M. L.** 1912 A
 The New Madrid earthquake.
 Bull. U. S. Geol. Surv., **ccccxciv**, 1-119, pls. i-x, 18 text-figs.
- , and F. G. Clapp 1912 A
 The underground waters of southwestern Ohio.
 U. S. Geol. Surv. Water-suppl. Pap. 259, 1-228, pls. and figs.
- Fulton, A. R.** 1883 A
Elephas americanus.
 Howe's Annals of Iowa, **ii**, 102-105.
 Describes a tooth of a mastodon.

- Fulton, T. Wemyss** 1906 A
Observations on the otoliths of some teleostean fishes.
Rep. Fish. Board Scotland, xxiv, pt. iii, 48-82, pls. i-v.
References are made to 5 papers which treat the subject.
- Funckius, Theodor** 1909 A
I: Der Prothorax der Vögel und Säuger.
Morphol. Jahrb., xxxix, 370-445, pls. xxi-xxiii, 20 text-figs.
This paper is preceded by an introduction by Dr. A. Fleischmann and followed by a bibliography of 41 titles.
- Furlong, E. L.** 1904 A
An account of the preliminary excavations in a recently explored Quaternary cave in Shasta County, California.
Science (n.s.), xx, 53-55.
Abstract in Geol. Centralbl., vii, 618.
- 1905 A
Preptoceras, a new ungulate from the Samwel Cave, California.
Bull. Dept. Geol. Univ. Calif., iv, 163-169, pls. xxiv-xxv.
Abstracts in Geol. Centralbl., viii, 374; x, 371; Rev. crit. Paléozool., x, 200.
- 1906 A
The exploration of Samwel Cave.
Amer. Jour. Sci. (4), xxii, 235-247, 3 text-figs.
Abstract in Geol. Centralbl., xi, 106-107.
- 1907 A
Reconnaissance of a recently discovered Quaternary cave deposit near Auburn, California.
Science (n.s.), xxv, 392-394.
This is known as the Hawver Cave.
Abstract in Sci. Progress, ii, 502.
- 1910 A
An aplodont rodent from the Tertiary of Nevada.
Bull. Dept. Geol., Univ. Calif., v, 397-403, 6 figs.
Describes *Aplodontia alexandra*.
Abstract in Geol. Centralbl., xvi, 57.
- 1925 A
Notes on the occurrence of mammalian remains in the Pleistocene of Mexico; with a description of a new species, *Capromeryx mexicana*.
Bull. Dept. Geol. Univ. Calif., xv, 137-152, 11 text-figs.
Abstract in Geol. Zentralbl., xxxiii, 46.
- Furlong, E. L.—Continued** 1927 A
The occurrence and phylogenetic status of *Merycodus* from the Mohave Desert Tertiary.
Bull. Dept. Geol. Univ. Calif., xvii, 145-186, pls. xxiv-xxviii, 28 text-figs.
— See also **Stock and Furlong**.
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1875 D
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1876 A
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1884 A
Sur un sirénien d'espèce nouvelle trouvé dans le bassin de Paris.
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1885 B
Nouvelle note sur les reptiles permien.
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1888 A
Sur les similitudes que plusieurs reptiles ont eues dans divers pays du monde vers la fin des temps primaires.
C. R. Congr. géol. internat., iii, Berlin, 1885, 1-4.
1891 C
Die Vorfahren der Säugetiere in Europa.
Leipzig, i-viii+1-222 pages, 40 text-figs.
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1892 B
Sur les caractères ostéologiques d'un *Mesopiodon sowerbyensis* mâle, échoué récemment sur le littoral de la France.
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 C. R. Acad. Sci. Paris, cxxxvii, 553-554.
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 Ann. Paléont. Paris, i, 1-42, 53 text-figs.
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 Ann. Paléont. Paris, i, 101-143 (fasc. iii,
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 Jahresber. Schles. Ges. vaterl. Kult., LXXII
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Die Metamerie des Schädels.
 Anat. Hefte, Ergebn., vii, 793-885, 3 tables.
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 Anat. Hefte, Ergebn., viii, 1898, 990-1149,
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 agilis.*
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*Alte Probleme und neuere Arbeiten
 über den Wirbeltierschädel.*
 Anat. Hefte, Ergebn., x, 847-1001, 5 text-
 figs.
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Anat. Anz., xxvii, 273-310, 9 text-figs.

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Anat. Anz. Ergänzungsh., xxvii, 16, 17.

1905 C
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 kiefers in der Wirbeltierreihe.
Anat. Anz. Ergänzungsh., xxvii, 125-138,
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 1905, 125-140, 7 figs.

1905 D
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 tiere.
Anat. Hefte, Ergebn., xiv, 808-1048, 46
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1905 E
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C. R. Assoc. Anatomistes, vii, 159-161,
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 xix, 125-140, 5 text-figs.

1906 A
 Ueber allgemeine und spezielle
 Fragen aus der Lehre vom Kopfskelett
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Anat. Anz. Ergänzungsh., xxix, 21-68, 16
 text-figs.
 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xii, pt. 3, 52-55

1906 B
 Die Entwicklung des Kopfskelettes.
 Hertwig's "Handb. vergleich., experiment.
 Entwicklungslehre Wirbelth.," iii, pt. 2,
 573-874, text-figs. 324-406.
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 pages 855-873.

1907 A
 Demonstration von Präparaten, be-
 treffend Knorpelbildung in Deck-
 knochen.
Verh. Anat. Ges., xxi, Würzburg, 251-252
 (*Anat. Anz.*, xxx, *Ergänzungsh.*).

1908 A
 Ueber die Kopf Gelenke der Säuger
 und des Menschen in morphologischer
 und funktioneller Beziehung.
Anat. Anz. Ergänzungsh., xxxii, 181-191,
 1 text-fig.

Gaupp, E.—Continued 1908 B
 Ueber Entwicklung und Bau der
 beiden ersten Wirbel und der Kopf-
 gelenke von *Echidna aculeata*, nebst
 allgemeinen Bemerkungen über die
 Kopf Gelenke der Amnioten.

Semon's "Zool. Forschungsr. in Austral.,"
 iii, 483-538, pl. lxvii, 20 text-figs. (*Denk-
 schr. Med. Ges. Jena*, vi, pt. 2.)
 A bibliography is found on pages 536-537
 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xiv, pt. 3, 51, 92.

1908 C
 Zur Entwicklungsgeschichte und
 vergleichenden Morphologie des Schäd-
 els von *Echidna aculeata* var. *typica*.
 Semon's "Zool. Forschungsr. in Austral.,"
 iii, 539-788, pls. lxviii-lxxv, 59 text-figs.
 The extensive bibliography is found on
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 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xiv, pt. 3, 52-65.

1910 A
 Das Lacrimale des Menschen und
 der Säuger und seine morphologische
 Bedeutung.
Anat. Anz., xxxvi, 529-555, 14 text-figs.
 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xvi, pt. 3, 42

1910 B
 Erwiderung auf den Aufsatz von H.
 Fuchs: "Ueber das Pterygoid, Palati-
 num und Parasphenoid der Quadrupe-
 den, etc."
Anat. Anz., xxxvii, 352-377.
 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xvi, pt. 3, 43.

1910 C
 Säugerpterygoid und Echidnaptery-
 goid nebst Bemerkungen über das
 Säugerpalatinum und den processus
 basiptyergoideus.
Anat. Hefte, Arb., xlii, 311-431, 41 text-
 figs.
 There is a bibliography (pages 428-431)
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 Abstract in *Jahresber. Anat. Entwickl.*
 (N.F.), xvi, pt. 3, 43-48.

1910 D
 Die Gehörknöchelchen- und Unter-
 kiefer-Frage.
C. R. Congr. internat. Med., xvi, Buda-
 pest, 1909, sec. 1, 81-101.
 There is a bibliography of 32 titles.

Gaupp, E.—Continued

1911 A

Ueber den N. trochlearis der Urodelen und über die Austrittsstellen der Gehirnnerven aus dem Schädelraum im allgemeinen.

Anat. Anz., XXXVIII, 401-444, 6 text-figs.

This paper is followed by an extensive list of the literature bearing on the subject.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 44.

1911 B

Beiträge zur Kenntnis des Unterkiefers der Wirbeltiere. I: Der Processus anterior (Folli) des Hammers der Säuger und das Goniale der Nichtsäuger.

Anat. Anz., XXXIX, 97-135, 16 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 45-49.

1911 C

Beiträge zur Kenntnis des Unterkiefers der Wirbeltiere. II: Die Zusammensetzung des Unterkiefers der Quadrupeden.

Anat. Anz., XXXIX, 433-473.

1911 D

Beiträge zur Kenntnis des Unterkiefers der Wirbeltiere. III: Das Problem der Entstehung eines "sekundären" Kiefergelenkes bei den Säugern.

Anat. Anz., XXXIX, 609-666, 6 text-figs.

Following this paper is a bibliography of 112 titles.

1912 A

Nachträgliche Bemerkungen zur Kenntnis des Unterkiefers der Wirbeltiere, insonderheit der Amphibien.

Anat. Anz., XL, 561-569.

Abstract in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 448.

1912 B

Die Verwandtschaftsbeziehungen der Säuger, vom Standpunkte der Schädelmorphologie aus erörtert.

Verh. internat. Zool.-Kongr., VIII, Graz, 1910, 215-240, 11 text-figs.

Brief abstract in Nature, LXXXIV, 319; Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 49.

1913 A

Die Reichertsche Theorie (Hammer-, Amboss- und Kieferfrage).

Arch. Anat. Entwickl., 1912, Suppl.-Band, i-xiii+1-416 pages, 149 text-figs.

The extensive bibliography occupies pages 397-416.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 55-67.

Gawrilenko, A.

1924 A

Die Evolution des Karpus bei den Proboscidiern. Nebst Bemerkungen über phylogenetisches Altern.

Anat. Anz., LVIII, 218-244, 5 figs.

Gebhardt, F. A. M. Walter

1907 A

Ueber das älteste geologisch bekannte Vorkommen von Knochengewebe (Placodermen).

Anat. Anz. Ergänzungs., XXX, 72-89.

Geddes, A. C.

1912 A

The origin of the vertebrate limb.

Jour. Anat., Physiol. Lond., XLVI, 350-383, 26 text-figs.

The article is followed by an extensive bibliography.

Gegenbaur, C.

1862 A

Ueber Bau und Entwicklung der Wirbelsäule bei Amphibien überhaupt, und beim Frosche insbesondere.

Abh. naturf. Ges. Halle, VI, 179-194, pl.

1862 B

Untersuchungen zur vergleichenden Anatomie der Wirbelsäule bei Amphibien und Reptilien.

4to., Leipzig, 72 pages, 4 pls. (not seen).

1863 A

Vergleichend-anatomische Bemerkungen über das Fußskelet der Vögel.

Arch. Anat. Entwickl. 1863, 450-472.

1864 B

Ein Fall von erblichem Mangel der Pars acromialis Claviculae mit Bemerkungen über die Entwicklung der Clavicula.

Jena. Zeitschr. Naturwiss., I, 1-16.

1864 C

Ueber die episternalen Skelettheile und ihr Vorkommen bei den Säugethieren und beim Menschen.

Jena. Zeitschr. Naturwiss., I, 175-195, pl.

IV.

1864 D

Ueber die Bildung des Knochengewebes.

Jena. Zeitschr. Naturwiss., I, 343-369, pl.

VIII.

1865 C

Upon the episternal portions of the skeleton, as they appear in Mammalia and man.

Nat. Hist. Rev., V, 545-567, 11 figs.

From Jena. Zeitschr. Naturwiss., I, 175 seq.

1866 A

Ueber den Brustgürtel und die Brustflosse der Fische.

Jena. Zeitschr. Naturwiss., II, 121-125.

- Gegenbaur, C.**—Continued 1867 A
 Ueber primäre und secundäre Knochenbildung mit besonderer Beziehung auf die Lehre vom Primordialcranium.
 Jena. Zeitschr. Naturwiss., III, 54-73.
- 1867 B
 Ueber die Entwicklung der Wirbelsäule des *Lepidosteus*, mit vergleichend-anatomischen Bemerkungen.
 Jena. Zeitschr. Naturwiss., III, 359-420, pls. VII-IX.
- 1870 A
 Ueber das Gliedmaassenskelet der Enaliosaurier.
 Jena. Zeitschr. Naturwiss., V, 332-359, pl. XIII.
 Abstract in Jour. Anat. Physiol. Lond., IV, 308.
- 1870 B
 Ueber die Modificationen des Skelets der Hintergliedmaassen bei den Männchen der Selachier und Chimären.
 Jena. Zeitschr. Naturwiss., V, 448-568, pl. XVI.
- 1870 C
 Ueber das Skelet der Gliedmaassen der Wirbelthiere im Allgemeinen und der Hintergliedmaassen der Selachier insbesondere.
 Jena. Zeitschr. Naturwiss., V, 397-447, pls. XV, 7 text-figs.
- 1871 A
 Beiträge zur Kenntniss des Beckens der Vögel.
 Jena. Zeitschr. Naturwiss., VI, 157-220, pls. V-VII, 5 text-figs.
 There are, as foot-notes, numerous references to other authors.
- 1871 B
 Ueber die Kopfnerven von *Hexanchus* und ihr Verhältniss zur "Wirbeltheorie" des Schädels.
 Jena. Zeitschr. Naturwiss., VI, 497-559, pl. XIII.
- 1879 A
 Zur Gliedmassenfrage. An die Untersuchungen v. Davidoff's angeknüpfte Bemerkungen.
 Morphol. Jahrb., V, 521-525.
- 1880 A
 Kritische Bemerkungen über Polydactylie als Atavismus.
 Morphol. Jahrb., VI, 583-596.
 An English abridged translation is found in Jour. Anat. Physiol. Lond., XVI, 615-622.
- Gegenbaur, C.**—Continued 1888 A
 Über polydactylie.
 Morphol. Jahrb., XIV, 394-406.
- Geikie, James** 1894 A
 The great ice age and its relation to the antiquity of man.
 Third edition. London, 8vo., I-XXVII+1-850 pages, 18 maps, charts, 77 text-figs.
- 1914 A
 The antiquity of man in Europe.
 Edinburgh, 8vo., I-XX+328 pages, pls. I-XXI, 9 text-figs., 4 maps.
- Geinitz, E.** 1903 A
 Das Quartär Nordeuropas.
 Frech's "Lethæa geognostica." III Th., II Bd., 42-304, numerous illustrations. (Continued in next.)
- 1904 A
 Das Quartär Nordeuropas.
 Frech's "Lethæa geognostica." III Th., II Bd., 305-430, numerous illustrations.
 The work cited here under Geinitz, E., 1903 A and 1904 A, abounds in references to the literature of the European Pleistocene.
- Geinitz, H. B.** 1847 B
 Ueber die Auffindung von Ueberresten des *Basilosaurus* oder *Zygodon* im Allgemeinen und die des *Basilosaurus* oder *Hydrarchus* von Koch im Besonderen.
 In Carus, C. G., 1847 A, 1-4.
- , and J. V. Deichmüller 1882 B
 Nachträge zur Dyas II.
 Mitt. Mus. Dresden, Heft 5, 1-46, pls. I-IX.
 This is identical with Geinitz und Deichmüller, 1882 A.
- See Frech and Geinitz.
- Gelderen, Chr. van** 1922 A
 On the development of the sternum in reptiles.
 Proc. Akad. Wet. Amsterdam, XXIV, 221-236, 7 figs.
- 1923 A
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 Proc. Akad. Wet. Amsterdam, XXVI, 15-31, 6 figs.
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 ayant été considérées comme les parties
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 Mém. Mus. hist. nat. Paris, xi, 143-160,
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1824 F

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1824 G

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1824 H

Composition de la tête osseuse de l'homme et des animaux.

Ann. Sci. nat., iii, 173-192, 245-299 pl. xvi.

1825 A

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Mém. Mus. hist. nat. Paris, xii, 13-17.

1825 B

Sur leurs affinités naturelles, desquelles résulte la nécessité d'une autre distribution générique, *Gavialis*, *Teleosaurus*, et *Steneosaurus*; etc.

Mém. Mus. hist. nat. Paris, xii, 97-155, pls. v, vi.

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Bull. Soc. Philom., Paris, 1825, 13-15.

1832 A

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Ann. Sci. nat. (3), xx, 21-69.

1853 C

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Ann. Sci. nat. (3), xx, 229-237, pl. xii.

1855 B

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Ann. Sci. Nat. (4) iii, 330-333, pl. v.

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1856 A

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Ann. Sci. nat. (4), vi, 5-16.

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 Mém. Soc. géol., France (2), IX, art. 5.
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- 1902 A
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Bull. Dept. Geol. Univ. Calif., iv, 57, 72, 75.

1906 A

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Proc. U. S. Nat. Mus., xxxix, 553-554, pl. xii.

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1906 B

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Proc. U. S. Nat. Mus., xxx, 165-167, figs. 1-3. Describes *Liops zunensis*.

Brief abstracts in Geol. Centralbl., xi, 107; Sci. Progress, i, 452.

1906 C

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Bull. Amer. Mus. Nat. Hist., xxii, 135-153, 20 text-figs.

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1906 D

A new genus of horse from the Mascall beds, with notes on a small collection of equine teeth in the University of California.

Bull. Amer. Mus. Nat. Hist., xxii, 385-388, 1 text-fig.

Abstract in Geol. Centralbl., xi, 473.

1906 E

Evidence bearing on tooth-cusp development, based on a study of the Mesozoic mammals.

Science (n.s.), xxxiii, 665-666.

Abstract in Rev. crit. Paléozool., xi, 9.

1906 F

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1907 A

Revision of the Miocene and Pliocene Equidae of North America.

Bull. Amer. Mus. Nat. Hist., xxxiii, 865-924.

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Gidley, J. W.—Continued 1907 B
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Proc. U. S. Nat. Mus., xxxii, 627-636, pls. lviii-lxv, 1 text-fig.

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1908 A

Descriptions of two new species of Pleistocene ruminants of the genera *Ovibos* and *Bootherium*, with notes on the latter genus.

Proc. U. S. Nat. Mus., xxxiv, 681-684, pls. lvii-lx.

Abstracts in Rev. crit. Paléozool., 13, 74, Amer. Jour. Sci. (4) xxviii, 412, Geol. Centralbl., xii, 596; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 162; Sci. Progress, iii, 454.

1908 B

Notes on a collection of fossil mammals from Virgin Valley, Nevada.

Bull. Dept. Geol., Univ. Calif., v, 235-242. Abstract in Geol. Centralbl., xiii, 203.

1909 A

Notes on the fossil mammalian genus *Ptilodus*, with descriptions of new species.

Proc. U. S. Nat. Mus., xxxvi, 611-626, pl. lxx, 9 text-figs.

Abstracts in Geol. Centralbl., xiv, 488; Amer. Jour. Sci. (4), xxviii, 411-412. Nature, vol. LXXXI, 204; Sci. Progress, iv, 649, 664, 1 pl.

1909 B

Remarks on a restoration of *Basilosaurus cetoides*.

Science (n.s.), xxxi, 519.

1911 A

[Collection of bones and teeth made at Brunswick, Ga.]

Bull. Geol. Survey Georgia, xxvi, 436.

1912 A

The lagomorphs an independent order.

Science (n.s.), xxxvi, 285-286.

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1912 B

Symposium on ten years progress in vertebrate paleontology. Perissodactyla.

Bull. Geol. Soc. Amer., xxxiii, 179-181.

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- Gidley, J. W.—Continued 1912 C**
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 Amer. Anthropol., xiv, 18-23.
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- 1913 A**
 A recently mounted zeuglodon skeleton in the United States National Museum.
 Proc. U. S. Nat. Mus., xlv, 649-654, pls. lxxx, lxxxii, 3 text-figs.
 Abstracts in Geol. Centralbl., xx, 146; Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 134; Sci. Progress, viii, 637; Nature, xci, 355.
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- 1913 B**
 Preliminary report on a recently discovered Pleistocene cave deposit near Cumberland, Maryland.
 Proc. U. S. Nat. Mus., xlvi, 93-102, 8 text-figs.
 Abstracts in Geol. Centralbl., xx, 703-704; Nature, London, xcv, 35.
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- 1913 C**
 Some new American pyenodont fishes.
 Proc. U. S. Nat. Mus., xlvi, 445-449, 6 text-figs.
 Abstract in Rev. crit. Paléozoöl., xviii, 58.
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- 1913 D**
 An extinct American eland.
 Smithsonian. Misc. Coll., lx, No. 27, 1-3, pl. i.
 Abstracts in Geol. Centralbl., xix, 525; Sci. Progress, viii, 631; Nature, xci, 595.
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- 1913 E**
 Notice of the occurrence of a Pleistocene camel north of the Arctic Circle.
 Smithsonian. Misc. Coll., lx, No. 26, 1-2.
 Abstracts in Sci. Progress, viii, 633; Nature, xci, 595.
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- 1913 F**
 Notes on the relative ages of the beds at Archer, at Mixon's, and at Ocala, Fla., and their correlation with deposits of the western plains region.
 U. S. Geol. Surv. Water-suppl. Pap., ccxix, 142-143.
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- 1913 G**
 A newly discovered cave deposit near Cumberland, Maryland.
 Smithsonian. Misc. Coll., lx, No. 30, 49-50, 1 fig.
 Abstract in Nature, xciv, 468.
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 Remarks on *Ptilodus*.
 Bull. Geol. Soc. Amer., xxv, 141.
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- Gidley, J. W.—Continued 1914 B**
 Further exploration of the Cumberland Pleistocene cave deposit.
 Smithsonian. Misc. Coll., lxiii, No. 8, 16-18, figs. 18, 19.
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- 1915 A**
 An extinct marsupial from the Fort Union, with notes on the Myrmecobidae and other families of this group.
 Proc. U. S. Nat. Mus., xlviii, 359-402, pl. xxii.
 Reviewed in Nature, London, xcv, 97; Rev. crit. Paléozoöl., xx, 39; Neues Jahrb. Min. Geol. Pal., 1917, i, 107; Geol. Mag. (6), ii, 430.
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- 1915 B**
 Notes on the possible origin of the bears.
 Jour. Wash. Acad. Sci., v, 333-334.
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- 1915 C**
 Fossil collecting at the Cumberland cave deposit.
 Smithsonian. Misc. Coll., lxv, No. 6, 12-15, figs. 13, 14.
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- 1915 D**
 Report on fossils found in phosphate mines in Florida.
 Bull. U. S. Geol. Surv., dciv, 19, 20, 21, 68. (Matson, G. C., 1916 A.)
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 Report on fossils found in Cannonball division of the Lance formation, Montana.
 Jour. Geol., xxiii, 538-539.
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 The Indiana mastodon.
 Smithsonian. Misc. Coll., lxvi, No. 3, 28-29, 1 fig.
 Reported mastodon found at Winamac, Ind.
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 Notice of a new Paleocene mammal, a possible relative of the titanotheres.
 Proc. U. S. Nat. Mus., lxi, 431-435, pl. xxxvi, 1 text-fig.
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 Report on Wasatch fossils.
 U. S. Geol. Surv. Profess. Pap., cviii, 59.
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 Report on fossils found in Manhattan district, Nevada.
 Bull. U. S. Geol. Surv., 640-J, 182.
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 Rep. U. S. Nat. Mus., 1917 (1918), 59-60.

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[On Wasatch fossils of the Powder River basin, Wyoming.]
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- 1918 C
Identification of mammalian fossils from northeastern Montana.
U. S. Geol. Surv. Profess. Paper., cviii, 180-182.
- 1919 A
Significance of divergence of the first digit in the primitive mammalian foot.
Jour. Wash. Acad. Sci., ix, 273-280
Abstract in Sci. Progress, xiv, 242.
- 1919 B
New species of clænodonts from the Fort Union (Basal Eocene) of Montana.
Bull. Amer. Mus. Nat. Hist., xli, 541-555, pl. xxviii.
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- 1919 C
[Notes in Peterson, O. A., 1919 A.]
Ann. Carnegie Mus., xxii, 61-62, 63.
- 1920 A
Pleistocene peccaries from the Cumberland cave deposit.
Proc. U. S. Nat. Mus., lviii, 651-678, pls. liv, lv, 13 text-figs.
Abstracts in Rev. Geol. et Sci. con., iv, 1923, 91-92; Neues Jahrb. Min. Geol. Pal., 1923, i, 318.
Review in Rev. crit. Palæozoöl., xxvii, 10.
- 1920 B
A Pleistocene cave deposit in western Maryland.
Rep. Smithsonian. Instn. for '1918, 281-287, pls. i-vi.
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- 1922 A
Review of W. K. Gregory's "The origin and evolution of the human dentition."
Jour. Mamm., iii, 268-269.
- 1922 B
Preliminary report on fossil vertebrates of the San Pedro Valley, Arizona, with descriptions of new species of Rodentia and Lagomorpha.
U. S. Geol. Surv. Profess. Paper., cxxxi, 119-130, pls. xxxiv, xxxv.
Abstracts in Geol. Zentralbl., xxx, 253; xxxi, 218.
- Gidley, J. W.—Continued** 1923 A
Paleocene primates of the Fort Union, with discussion of relationships of Eocene primates.
Proc. U. S. Nat. Mus., lxxiii, art. 1, 1-38, pls. i-v, 4 text-figs.
There is a bibliography of 46 titles
Review in Rev. crit. Palæozoöl., xxviii, 1924, 21.
- 1923 B
Report on fossils found near Ligurta, Arizona.
Bull. U. S. Geol. Surv., dcccxxx, 31-32.
- 1923 C
Observations on the Miocene species *Ursus primævus* Gaillard.
Jour. Mamm., iv, 240-243, pl. xxvii.
- 1923 D
Report on fossil bones.
U. S. Geol. Surv. Water Supply Pap., cxcviii, 75.
- 1924 A
Report on vertebrate fossils found at Manhattan Gulch, Nevada.
Bull. U. S. Geol. Surv., dcccxxiii, 69-70.
- 1924 B
Report on fossils found in "Tiffany" zone, Colorado.
U. S. Geol. Surv. Profess. Paper., cxxxiv, 47.
- 1925 A
Prehistoric remains in Florida.
Science (n.s.), lxii, Aug. 28, Suppl., p. x.
- 1926 A
Fossil Proboscidea and Edentata of the San Pedro Valley, Arizona.
U. S. Geol. Surv. Profess. Pap., cxi, 83-95, pls. xxxii-xliv.
- 1926 B
Fossil man associated with the mammoth in Florida.
Jour. Wash. Acad. Sci., xvi, 310.
- 1926 C
Descriptions of fossil vertebrates from the shores of Lake Cochise, Arizona.
Amer. Jour. Sci. (5), xi, 481-485
A part of Bryan and Gidley, 1926 A.
- 1926 D
Fossil man in Florida.
Bull. Geol. Soc. Amer., xxxvii, 239-240 (abstract).
- 1926 E
Identification of fossils from Cody shale (Cretaceous) and Wasatch (Eocene) formation.
U. S. Geol. Surv. Profess. Pap., cxlv, 16, 41.

- Gidley, J. W.**—Continued 1926 F
Description of fishes from the Ripley formation, Tennessee.
U. S. Geol. Surv. Profess. Pap., CXXXVII, 192, pl. lxxi.
- 1927 A
An elephant hunt in Florida.
Smithson. Misc. Coll., LXXVIII, art. 7, 48-51, fig. 54.
- 1927 B
Investigating evidence of early man in Florida.
Smithson. Misc. Coll., LXXVIII, art. 7, 168-174, figs. 168-176.
- 1927 C
A true marten from the Madison Valley (Miocene) of Montana.
Jour. Mamm., viii, 239-242, 1 fig.
- 1927 D
American wild horses.
Scient. Monthly, xxv, 265-271.
- 1927 E
Preliminary list of species of Pleistocene vertebrates found at Melbourne, Florida.
Publ. Carnegie Instn. Wash., No. 322 B, 274.
- , and F. B. Loomis 1926 A
Fossil man in Florida.
Amer. Jour. Sci. (5), xii, 254-264.
- See Miller, G. S., and J. W. **Gidley**
- Giebel, Christoph G.** 1848 B
Ueber das Milch-Gebiss des *Rhinoceros tichorhinus*.
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Gilmore, C. W.—Continued 1906 B

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Mem. Carnegie Mus., II, 325-337, pls.
xxxvi-xxxviii, 13 text-figs.

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Entwickl. (N.F.), XII, pt. 3, 162.

1906 C

Notes on a newly mounted skeleton
of *Merycoidodon*, a fossil mammal.

Proc. U. S. Nat. Mus., XXXI, 513-514, pl.
XII.

Brief abstracts in Geol. Centralbl., XI,
107; Jahresber. Anat. Entwickl. (N.F.), XII,
pt. 3, 167.

1907 A

The type of the Jurassic reptile
Morosaurus agilis redescribed, with a
note on *Campiosaurus*.

Proc. U. S. Nat. Mus., XXXII, 151-165,
pls. XII, XIII, 9 text-figs.

Abstracts in Geol. Centralbl., XI, 333; Sci.
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Pal., 1908, II, Ref. 437; Rev. crit. Paléozoöl.,
XI, 146; Jahresber. Anat. Entwickl. (N.F.),
XIII, pt. 3, 169.

1907 B

A new species of *Baptanodon* from
the Jurassic of Wyoming.

Amer. Jour. Sci. (4), XXIII, 193-196, with
2 text-figs.

Brief abstract in Neues Jahrb. Min. Geol.
Pal., 1908, II, Ref., 441.

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1908 A

Smithsonian exploration in Alaska
in 1907 in search of Pleistocene fossil
vertebrates.

Smithson. Misc. Coll., LI, 1-38, pls. I-XIII,
4 text-figs.

Abstract with figure in Nature, LXXVIII,
346.

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1909 A

Osteology of the Jurassic reptile
Campiosaurus, with a revision of the
species of the genus, and descriptions
of two new species.

Proc. U. S. Nat. Mus., XXXVI, 197-332,
pls. VI-XX, 48 text figs.

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410; Neues Jahrb. Min. Geol. Pal., 1910, II,
Ref., 300-301; Geol. Centralbl., XIV, 490;
Rev. crit. Paléozoöl., XIII, 204-206; Nature,
LXXX, 378.

Gilmore, C. W.—Continued 1909 B

A new rhynchocephalian reptile
from the Jurassic of Wyoming, with
notes on the fauna of "quarry 9."

Proc. U. S. Nat. Mus., XXXVII, 36-52, with
pl. XI and 3 text-figs.

Abstracts in Geol. Centralbl., XIV, 491;
Neues Jahrb. Min. Geol. Pal., 1910, I, Ref.,
466; Rev. crit. Paléozoöl., XIV, 13; Nature,
LXXXII, 74; Sci. Progress, IV, 668.

1910 A

Leidyosuchus sternbergii, a new
species of crocodile from the Ceratops
beds of Wyoming.

Proc. U. S. Nat. Mus., XXXVIII, 485-502,
pls. XXIII-XXIX, 2 text-figs.

Abstracts in Neues Jahrb. Min. Geol.
Pal., 1911, I, 319; Nature, LXXXV, 288; Sci.
Progress, V, 682.

1911 A

[Remains of vertebrates found in
the Ripley formation in Georgia.]

Bull. Geol. Surv. Georgia, XXVI, 208-209.

1911 B

A new fossil alligator from the Hell
Creek beds of Montana.

Proc. U. S. Nat. Mus., XL, 297-302, pls.
XXVI, XXVII, 1 text-fig.

Abstracts in Neues Jahrb. Min. Geol.
Pal., 1911, II, Ref. 479; Geol. Centralbl.,
XVII, 42; Sci. Progress, VI, 572.

Review in Rev. crit. Paléozoöl., XVI, 6.

1912 A

A new mosasauroid reptile from the
Cretaceous of Alabama.

Proc. U. S. Nat. Mus., XLI, 479-484, pls.
XXIX, XL, 3 text-figs.

Abstracts in Geol. Centralbl., XVII, 705;
Neues Jahrb. Min. Geol. Pal., 1912, I, 137;
Sci. Progress, VIII, 642.

Review in Rev. crit. Paléozoöl., XVI, 237.
Abstract in Nature, XCII, 695.

1912 B

The mounted skeletons of *Campio-*
saurus in the United States National
Museum.

Proc. U. S. Nat. Mus., XLI, 687-696, pls.
IV-LXI, 4 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal.,
1912, I, Ref., 362.

Review in Rev. crit. Paléozoöl., XVI, 233.

1912 C

Remarks on the skeleton of the
dinosaur, *Stegosaurus*.

Science (N.S.), XXXV, 972.

Abstract in Nature, XCI, 142.

1912 D

Mosasaurian in Fox Hills? forma-
tion.

Folio U. S. Geol. Surv., No. 181, 2.

Gilmore, C. W.—Continued 1913 A

A new dinosaur from the Lance formation of Wyoming.

Smithson. Misc. Coll., LXI, art. 5, 1-5, 5 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1913, II, 512; Geol. Zentralbl., XX, 704.

1914 A

Osteology of the armored Dinosauria in the United States National Museum, with special reference to the genus *Stegosaurus*.

Bull. U. S. Nat. Mus., LXXXIX, 1-143, pls. i-xxxvii, 73 text-figs.

Abstracts in Nature, xcv, 276; xcvi, 152; Rev. crit. Paléozool., xxi, 46; Amer. Jour. Sci. (4), XLVII, 237-238; Geol. Zentralbl., xxii, 61.

1914 B

A new ceratopsian dinosaur from the Upper Cretaceous of Montana, with note on *Hypacrosaurus*.

Smithson. Misc. Coll., LXIII, No. 3, 1-10, 2 plates, 2 text-figs.

Abstracts in La Nature, Paris, 1923, Sept. 29, 93, 3 figs.; Geol. Zentralbl., xxi, 623; xxviii, 346.

1914 C

A second occurrence of ichthyosaurian remains in the Benton cretaceous.

Science (n.s.), xxxix, 210.

Abstract in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 511.

1914 D

A fossil hunting expedition in Montana.

Smithson. Misc. Coll., LXIII, No. 8, 18-21, with figs. 20-22.

Abstract in Nature, xciv, 463; xcv, 136.

1915 A

Osteology of *Thescelosaurus*, an orthopodous dinosaur from the Lance formation of Wyoming.

Proc. U. S. Nat. Mus., XLIX, 591-616, pls. lxxix-lxxxii, 20 text-figs.

Abstract with figure in Nature, London, xcvi, 716.

Review in Rev. crit. Paléozool., xxvii, 208.

1915 B

A new restoration of *Stegosaurus*.

Proc. U. S. Nat. Mus., XLIX, 355-357, pl. lii, 1 text-fig.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1922, I, 255; Geol. Mag. (6), II, 525.

1915 C

[Brief descriptions of dinosaurs.]

Bull. U. S. Geol. Surv., DCXII, 52-54; 58-59, pls. x, xi, text-fig. 9.

Gilmore, C. W.—Continued 1915 D

Observations on new dinosaurian reptiles.

Jour. Wash. Acad. Sci., v, 411, 488.

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1915 E

On the fore limb of *Allosaurus fragilis*.

Proc. U. S. Nat. Mus., XLIX, 501-513, 7 figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1922, I, Ref., 136.

Review in Rev. crit. Paléozool., xxvii, 208.

1915 F

On the genus *Trachodon*.

Science (2), xli, 658-660.

Review in Rev. crit. Paléozool., xxvii, 208.

1915 G

Hunting vertebrate fossils in Montana.

Smithson. Misc. Coll., LXV, No. 6, 15-17, figs. 15-16.

1915 H

The fossil turtles of the Uinta formation.

Mem. Carnegie Mus., VII, 101-161, pls. xviii-xxvii, 22 text-figs.

Separates of this paper were distributed November 1915. On the cover of a copy issued by the Carnegie Museum is printed the date November 1916.

1916 A

Description of a new species of tortoise from the Jurassic of Utah.

Ann. Carnegie Mus., x, 7-12, pls. i, ii, 2 text-figs.

Abstracts in Rev. crit. Paléozool., xxvii, 210; Geol. Zentralbl., xxxix, 187.

1916 B

Mode of progression of *Ceratosauros*.

Scient. Amer. Suppl., No. 2098, 187.

1916 C

Description of two new species of fossil turtles, from the Lance formation of Wyoming.

Proc. U. S. Nat. Mus., L, 641-646, pls. xxxii-xxxv.

Abstract in Rev. crit. Paléozool., xxvii, 210.

1916 D

Contributions to the geology and palæontology of San Juan County, New Mexico. 2: Vertebrate faunas of the Ojo Alamo, Kirtland and Fruitland formations.

U. S. Geol. Surv. Profess. pap., xcvi, 279-308, pls. lxiv-lxxviii, text-figs. 23-42.

Abstract in Rev. crit. Paléozool. Paris, xxiv, 90-91.

Gilmore, C. W.—Continued 1917 A

Brachyceratops a ceratopsian dinosaur from the Two Medicine formation of Montana, with notes on associated fossil reptiles.

U. S. Geol. Surv. Profess. pap., ciii, 1-45, pls. 1-iv, 57 text-figs.

Abstract in Geol. Zentralbl., xxvii, 412.

1918 A

The armored dinosaur.

Scient. Monthly, vi, 475-477, 2 text-figs

1918 B

Report on vertebrate paleontology in U. S. National Museum for 1917.

Rep. U. S. Nat. Mus., 1917 (1918), 58-59, 62.

1918 C

A newly mounted skeleton of the armored dinosaur *Stegosaurus stenops*, in the United States National Museum.

Proc. U. S. Nat. Mus., liv, 383-390, pls. lvii-lxiii.

Abstract in Amer. Jour. Sci (4), xlvii, 237-238; Neues Jahrb. Min. Geol. Pal., 1922 i, Ref., 255.

1919 A

A new restoration of *Triceratops*, with notes on the osteology of the genus.

Proc. U. S. Nat. Mus., lv, 97-112, pls. iii-ix, 6 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1922, i, Ref., 256; Sci. Progress, xiv, 241.

Review in Rev. crit. Paléozool., xxvii, 11 (title and date of publication incorrectly given).

1919 B

Dimetrodon gigas, a giant spiny lizard from Texas bone beds.

Scient. Amer. Suppl., lxxxviii (No. 2771), 20-21, 3 figs.

1919 C

New fossil turtles, with notes on two described species.

Proc. U. S. Nat. Mus., lvi, 113-132, pls. xxix-xxxvii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 386; Rev. Geol. et Sci. con., iv, 1923, 92-93.

Review in Rev. crit. Paléozool., xxvii, 10.

Gilmore, C. W.—Continued 1919 D

A mounted skeleton of *Dimetrodon gigas* in the United States National Museum with notes on the skeletal anatomy.

Proc. U. S. Nat. Mus., lvi, 525-539, pls. lxx-lxxiii, 8 text-figs

Abstracts in Rev. crit. Paléozool., Paris, xxiv, 147-148; xxvii, 209; Neues Jahrb. Min. Geol. Pal., 1921, i, Ref., 361-362; Nature, cv, 118, fig. 1.

1919 E

An ornithomimid dinosaur in the Potomac of Maryland.

Science (n s), l, 394-395.

1920 A

Reptilian faunas of the Torrejon, Puerco, and underlying Upper Cretaceous formations of San Juan County, New Mexico.

U. S. Geol. Surv. Profess. Pap., cxix, 1-68, 71, with pls. 1-xxvi and 33 text-figs.

The imprint gives the year 1919, but the paper was issued April 20, 1920

Abstract in Nature, cviii, 482.

1920 B

Osteology of the carnivorous Dinosauria in the United States National Museum, with special reference to the genera *Antrodemus* (*Allosaurus*) and *Ceratosaurs*.

Bull. U. S. Nat. Mus., cx, 1-154, 36 pls., 78 text-figs.

The bibliography comprises 57 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 253-255; Sci. Progress, xvi, 215.

1920 C

Reptile reconstructions in the United States National Museum.

Rep. Smithsonian. Instn. for 1917 (1920), 271-280, pls. 1-vi.

Abstracts in Geol. Zentralbl., xxvii, 363; xxviii, 345; Nature, xcvi, 386

1921 A

A new horned dinosaur from Canada. The *Styracosaurus albertensis* with a six-foot skull bristling with horns.

Scient. Amer. Monthly, iii, 7-8, 3 figs.

Abstract in Rev. crit. Paléozool., xxvii, 210.

1921 B

An extinct sea-lizard from western Kansas.

Scient. Amer., cxxiv, 273, 280, 3 figs.

Abstract in Rev. crit. Paléozool., xxvii, 209.

- Gilmore, C. W.—Continued 1921 C**
 Fossil footprints of Texas.
 Scient. Ameri., cxxiv, 333, 340, 4 figs. An unsigned article.
- 1921 D
 Discovery of sauropod dinosaur remains in the Upper Cretaceous of New Mexico.
 Science (n.s.), liv, 274.
 Abstract in Rev. crit. Paléozool., xxvii, 209.
- 1921 E
 The fauna of the Arundel formation of Maryland.
 Proc. U. S. Nat. Mus., lxx, 581-594, pls. cx-cxiv.
 Abstracts in Rev. crit. Paléozool., xxvii, 5; xxvii, 209.
- 1921 F
 Remarks on some additions to the fossil vertebrate collection in the National Museum.
 Jour. Wash. Acad. Sci., ii, 66.
- 1922 A
 A new sauropod dinosaur from the Ojo Alamo formation of New Mexico.
 Smithson. Misc. Coll., lxxii, No. 14, 1-9, 2 pls.
 Review in Rev. crit. Paléozool., xxvii, 209.
 Abstract in Geol. Zentralbl., xxviii, 345.
- 1922 B
 The smallest known horned dinosaur *Brachyceratops*.
 Proc. U. S. Nat. Mus., lxi, art. 3, 1-4, pls. 1-4.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 93-94; v, 126; in Rev. crit. Paléozool., xxvii, 11; xxviii, 21.
- 1922 C
 The horned dinosaurs.
 Rep. Smithson. Instn. for 1920, 381-387, pls. i-viii.
 Abstract in Rev. crit. Paléozool., xxvii, 210.
- 1922 D
 A new description of *Saniwa ensidens* Leidy, an extinct varanid lizard from Wyoming.
 Proc. U. S. Nat. Mus., lx, art. xxiii, 1-28, pls. i-iii, 22 text-figs.
 Abstract in Rev. Géol. et Sci. conn., v, 127-128.
 Review in Rev. crit. Paléozool., xxvii, 208; xxviii, 22.
- 1922 E
 Note on dinosaur tracks in Texas.
 Jour. Geol. xxx, 360.
- Gilmore, C. W.—Continued 1923 A**
 A new fossil turtle, *Kinosternon arizonense*, from Arizona.
 Proc. U. S. Nat. Mus., lxxii, art. 5, 1-8, pls. 1-5, 7 text-figs. Issued Feb. 6, 1923.
 Abstract in Rev. crit. Paléozool., xxvii, 217.
- 1923 B
 A new species of *Corythosaurus*, with notes on other Belly River Dinosauria.
 Canad. Field-Naturalist, xxxvii, 46-52.
 Abstract in Rev. crit. Paléozool., xxvii, 217.
- 1923 C
 Giant reptile taken to the capital.
 Science (n.s.), lviii, xii (Sept. 7).
- 1923 D
 A new species of *Aspideretes* from the Belly River Cretaceous of Alberta.
 Trans. Roy. Soc. Canada (3), xvii, sec. iv, 1-10, pls. 1-v.
- 1924 A
 Notes on Charles M. Sternberg's paper on Lance formation of southern Saskatchewan. (Sternberg, C. M., 1924 A.)
 Canad. Field-Naturalist, xxxiii, 68-69.
- 1924 B
 A new coelurid dinosaur from the Belly River Cretaceous of Alberta.
 Can. Geol. Surv. Dept. Mines, Bull. xxxviii (Geol. Ser. xliii), 1-12, pl. i, text-figs. 1-5.
- 1924 C
 A new species of hadrosaurian dinosaur from the Edmonton formation (Cretaceous) of Alberta.
 Can. Geol. Surv. Dept. Mines, Bull. xxxviii (Geol. ser. xliii), 13-26, pls. ii-v; text-figs. 6, 7.
- 1924 D
 Report on a collection of vertebrates from Wood Mountain, southern Saskatchewan.
 Can. Geol. Surv. Dept. Mines, Bull. xxxviii (Geol. ser. xliii), 27-28.
- 1924 E
 On the genus *Stephanosaurus*, with a description of the type specimen of *Lambeosaurus lambei* Parks.
 Can. Geol. Surv. Dept. Mines, Bull. xxxviii, 29-43, pls. vi-x, text-figs. 8-12.

- Gilmore, C. W.—Continued 1924 F
On the skull and skeleton of *Hypacrosaurus*, a helmet-crested dinosaur from the Edmonton Cretaceous of Alberta.
Can. Geol. Surv. Dept. Mines, Bull. xxxviii, 49-64, pls. xi, xii, text-figs. 13-17.
- 1924 G
On *Troodon validus*; an orthopodous dinosaur from the Belly River Cretaceous of Alberta, Canada.
Bull. Univ. Alberta, Dept. Geol., 1, 1-43, pls. i-xv, 3 text-figs.
Note on in Amer. Jour. Sci. (5), vii, 510.
Abstracts in Amer. Jour. Sci. (5), vii, 510; Geol. Zentralbl., xxxi, 415.
- 1924 H
A new species of *Laosaurus*, an ornithischian dinosaur from the Cretaceous of Alberta.
Trans. Roy. Soc. Canada (3), xviii, 1-7, pls. i, ii.
- 1924 I
The Dinosaur National Monument and its fossils.
Wash. Acad. Sci., xiv, 381 (abstract).
- 1924 J
Expedition to the Dinosaur National Monument, Utah.
Smithson. Misc. Coll., lxxvi, 12-16, figs. 16-21.
- 1924 K
Collecting fossil footprints in Virginia.
Smithson. Misc. Coll., lxxvi, 16-18, 2 figs.
- 1925 A
A nearly complete articulated skeleton of *Camarasaurus*, a saurischian dinosaur from the Dinosaur National Monument, Utah.
Mem. Carnegie Mus., x, 347-384, pls. xiii-xvii, text-figs. 1-5.
- 1925 B
Osteology of ornithopodous dinosaurs from the Dinosaur National Monument, Utah. *Camptosaurus medius*, *Dryosaurus altus*, *Laosaurus gracilis*.
Mem. Carnegie Mus., x, 385-409, pl. xviii, text-figs. 1-8.
- 1926 A
Fossil footprints from the Grand Canyon.
Smithson. Misc. Coll., lxxvii, No. 9, 1-41, 12 pls., 23 text-figs.
Abstract in Petermann's Geogr. Mitteil. 1927, Heft 1, 2, 54.
- Gilmore, C. W.—Continued 1926 B
A new aëtosaurian reptile from the Morrison formation of Utah.
Ann. Carnegie Mus., xvi, 325-342, pls. xxvii-xxix, 4 text-figs.
There is appended a bibliography of 17 titles.
- 1926 C
Prehistoric footprints from the Grand Canyon.
Science (n.s.), lxiii, May 21, xvi.
- 1926 D
Footprints in the rocks of ages.
Nature Mag., vii, 362-364, 5 figs.
- 1926 E
Diplodocus, an amphibious dinosaur.
Nature Mag., viii, 35, 1 fig.
- 1926 F
Ceratosaurus, a flesh-eating dinosaur.
Nature Mag., viii, 91, 1 fig.
- 1926 G
Fossil footprints from the Grand Canyon.
Bull. Geol. Soc. Amer., xxxvii, 240-241 (abstract).
- 1926 H
Brachyceratops, the smallest American horned dinosaur.
Nature Mag., viii, 163, 1 fig.
- 1926 I
Thescelosaurus; a bird-footed dinosaur.
Nature Mag., viii, 280, 1 fig.
- 1926 J
Identification of fossils from Lance formation, Wyoming.
U. S. Geol. Surv. Profess. Pap., cxlv, 28.
- 1926 K
On a nearly complete lizard skull from the Oligocene of Nebraska.
Univ. Kan. Sci. Bull., xvi, 229-232, pl. xv.
- 1926 L
Description of mosasaurs from the Ripley formation, Tennessee.
U. S. Geol. Surv. Profess. Pap., cxxxvii, 191-192, pl. lxii, figs. 5, 8; pls. lxxi, lxii.
- 1926 M
Stegosaurus, an armored dinosaur.
Nature Mag., viii, 348-349, fig.
- 1927 A
Trachodon, the duck-billed dinosaur.
Nature Mag., ix, 35, fig.
Issued late in Dec. 1926.

- Gilmore, C. W.**—Continued 1927 B
Ossified tendons found in dinosaurs.
Ann. Med. Hist., ix, 94-97, figs. 1, 2.
- 1927 C
Collecting fossil footprints in the
Grand Canyon, Arizona.
Smithson. Misc. Coll., LXXVIII, art. 7, 45-
48, figs. 52, 53.
- 1927 D
Fossil footprints from the Grand
Canyon: second contribution.
Smithson. Misc. Coll., LX, art. 3, 1-78,
21 pls., 37 text-figs.
The bibliography presents 31 titles.
- 1927 E
On fossil turtles from the Pleisto-
cene of Florida.
Proc. U. S. Nat. Mus., LXXI, art. 15, 1-10,
pls. i-v, text-figs. 1-4.
- 1927 F
Fossil footprints in the Grand Can-
yon.
Jour. Wash. Acad. Sci., xvii, 272.
- 1927 G
The fossil lizards of North America.
Mem. Nat. Acad. Sci., xxii, 1-198, 27
pls., 106 figs.
The bibliography occupies pages 165-169.
- 1927 H
Note on a second occurrence of the
mosasaurian reptile *Globidens*.
Science (n.s.), LXVI, 452.
- 1927 I
Triceratops, a horned dinosaur.
Nature Mag., ix, 393, fig.
- 1928 A
Fossil footprints from the Grand
Canyon: Third Contribution.
Smithson. Misc. Coll., LXXX, art. 8, 1-16,
pls. i-v, 7 text-figs.
- See also Peterson and Gilmore.
- Girard, Charles F.** 1851 A
A monograph of the cottoids.
Smithson. Contrib. Knowl., iii, art. 3,
1-80, pls. i-iii.
The osteology is discussed on pages 14-
26 and illustrated in plate iii.
- 1851 B
On the genus *Cottus* auct.
Proc. Bost. Soc. Nat. Hist., iii, 183-190.
- 1852 A
Révision du genre *Cottus* des au-
teurs.
Nouv. Mém. Soc. Helvét. Sci. Nat., xii,
art. 3, 1-23.
- Girtanner, A.** 1901 A
Der Moschusochse (*Ovibos moscha-
tus* Zimm.).
Ber. St. Gall. naturw. Ges., 1899-1900,
120-146, plate.
Abstract in Geol. Centralbl., ii, 574.
- Goddard, Malcolm** 1907 A
Fish remains from the marine Lower
Triassic of Aspen Ridge, Idaho.
Bull. Dept. Geol., Univ. Calif., v, 145-
148, 5 figs.
Abstracts in Geol. Centralbl., xii, 227;
Neues Jahrb. Min. Geol. Pal., 1908, ii, Ref.,
446; Rev. crit. Paléool., xi, 228.
- Goddard, Pliny E.** 1926 A
The antiquity of man in America.
Nat. Hist., xxvi, 257-259.
- 1927 A
Man in America.
Amer. Mercury, x, 67-70.
- Godman, John D.** 1860 A
American natural history.
8vo., ed. 3, i, i-xxvi+i-iii-xiii+15-345; ii,
1-337. Many illustrations.
The first edition appears to have been
published in 1826; the second, in 1846. The
author treated only the Mammalia. No
citations to Godman's book are here made,
except in the case of a few extinct species.
- Goeppert, E.** 1896 B
Die Phylognese der Wirbelthier-
kralle.
Morphol. Jahrb., xxv, 1-30, pl. i, 19 text-
figs.
There are 7 titles in the bibliography.
- 1897 A
Bemerkungen zur Auffassung der
Morphologie der Rippen in Rabl's
"Theorie des Mesoderms."
Morphol. Jahrb., xxv, 244-249.
- 1905 A
Bemerkungen zu: A. Fleischmann,
Das Kopfskelett der Amnioten.
Morphol. Jahrb., xxxiii, 532-534.
- Goethe, J. W., and Ed. Alton** 1824 A
Zur vergleichenden Osteologie, von
Goethe; mit Bemerkungen von Dr. Ed.
d'Alton.
Nova Acta Acad. Leop. Carol., xii, 325-
332, pls. xxxiii-xxxv.
- Goetsch, Wilhelm** 1915 A
Über Hautknochenbildung bei Tele-
ostiern und bei *Amia calva*.
Arch. mikr. Anat. Bonn., LXXXVI, 435-468,
pls. xviii, xix, 3 text-figs.
The bibliography contains 86 titles.

- Goetsch, Wilhelm**—Continued 1920 A
Hautknochenbildungen bei Fischen.
Zool. Jahrb. Anat., XLII, 1-42, pls. i, ii;
435-523, pls. xix-xxiii.
24 titles are recorded in the bibliographies.
- Goette, A.** 1878 A
Zur Morphologie des Wirbelsystems.
Zool. Anz., I, 11-12.
- 1879 A
Beiträge zur vergleichenden Morphologie des Skelettsystems der Wirbeltiere. II: Die Wirbelsäule und ihre Anhänge.
Arch. mikr. Anat. Bonn., XVII, 117-152, pls. vii-ix.
The bibliography comprises 24 titles.
- 1895 A
Ueber den Ursprung der Wirbeltiere.
Verh. deutsch. Zool. Ges., 1895, v, 12-29, 7 figs.
- 1901 A
Über die Kiemen der Fische.
Zeitschr. wiss. Zool., LXXIX, 533-577, pls. xl-xliii.
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The development of the columella auris.
Jour. Anat. Lond., LIX, 301-325, 10 figs.
The bibliography presents 10 titles.
- Goldfuss, Georg August** 1831 A
Beiträge zur Kenntnis verschiedener Reptilien der Vorwelt.
Nova Acta Acad. Leop. Carol., xv, 61-123, pls. vii-xiii.
Describes species of *Pterodactylus*, *Ornithocephalus*, *Lacerta*, *Rana*, *Salamandra*, *Triton* and *Ophis*.
- 1847 B
Über das älteste der mit Bestimmtheit erkannten Reptilien, einen Krokodilier, und einige neue fossile Fische aus der Steinkohlen-Formation.
Neues Jahrb. Min. Geogn. Geol., 1847, 400-404, pl. vi.
- Goldman, Edward Alphonso** 1910 A
Revision of the wood rats of the genus *Neotoma*.
N. A. Fauna No. XXXI, 1-124, pls. i-viii, 14 text-figs.
- 1911 A
Revision of the spiny pocket mice (Genera *Heteromys* and *Liomys*).
N. A. Fauna, No. XXXIV, 1-70, pls. i-iii, 6 text-figs.
- Goldman, E. A.**—Continued 1913 A
A new generic name for the Asiatic tapir.
Proc. Biol. Soc. Wash., XXVI, 65-66.
- 1918 A
The rice rats of North America (Genus *Oryzomys*).
N. A. Fauna, No. XLIII, 1-100, pls. i-vi, 11 text-figs.
- Goode, G. B., and T. H. Bean** 1895 A
Oceanic ichthyology, a treatise on the deep-sea and pelagic fishes of the world.
Special Bull. U. S. Nat. Mus., 4to., i-xxv+1-26, 1-553, atlas of plates, 1-xxxiii.
- Goodey, T.** 1910 A
A contribution to the skeletal anatomy of the frilled shark, *Chlamydoselachus anguineus* Gar.
Proc. Zool. Soc. Lond., 1910, 540-570, pls. xlii-xlvi.
- Goodman, Neville** 1868 A
Note on a three-toed cow.
Jour. Anat. Physiol. Lond., II, 109-113.
- Goodrich, Edwin S.** 1901 A
On the pelvic girdle and fin of *Eusthenopteron*.
Quart. Jour. Micr. Sci. (n.s.), XLV, 311-324, pl. xvi, 12 text-figs.
Abstracts in Neues Jahrb. Minn. Geol. Pal., 1905, II, Ref., 311-312, figs. 1, 2; Geol. Centralbl., II, 604.
- 1904 A
On the dermal fin-rays of fishes—living and extinct.
Quart. Jour. Micr. Sci., XLVII, 465-522, pls. 35-41.
There is furnished a bibliography of 43 titles.
Abstract in Jour. Roy. Micr. Sci., 1904, 519-520.
- 1906 A
Notes on the development, structure, and origin of the median and paired fins of fish.
Quart. Jour. Micr. Sci., I, 333-376, pls. x-xiv, 3 text-figs.
There is a bibliography of 37 titles.
Abstract in Nature, London, LXXIV, 252; Knowl. and Scient. News (n.s.), III, 510; Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 113; Sci. Progress, I, 463.
- 1908 A
On the scales of fish, living and extinct, and their importance in classification.
Proc. Zool. Soc. Lond., 1907, II, 751-774, pls. xliii-xlvi, text-figs. 196-204.
Abstracts in Geol. Centralbl., XII, 152; XIII, 439.

Goodrich, Edwin S.—Continued 1908 B

On the systematic position of *Polyp-terus*.

Rep. Brit. Assoc. Adv. Sci., LXXVII, Leicester, 1907, 545-546.

1909 A

Vertebrata Craniata (1st fasc.: Cyclostomes and Fishes). Lankester's A Treatise on Zoology.

Pt. ix, i-xvi+1-518, 515 figs.

The biography records the titles of 574 books and articles.

Comment on in Ann. Mag. Nat. Hist. (8), iv, 308; Nature, LXXXII, 152.

1910 A

Origin of vertebrates.

Proc. Linn. Soc. Lond., CXII, 24-26.

1911 A

On the segmentation of the occipital region of the head in the Batrachia urodela.

Proc. Zool. Soc. Lond., 1911, 101-120, text-figs. 29-51.

There is a bibliography of 11 titles.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 50.

1913 A

On the structure of bone in fishes: a contribution to palaeohistology.

Proc. Zool. Soc. Lond., 1913, 80-85, text-figs. 13-16.

1916 A

On the classification of the Reptilia.

Proc. Roy. Soc. Lond., LXXXIX, 261-276, 5 figs.

There is a bibliography of 37 titles.

1918 A

On the development of the segments of the head in *Scyllium*.

Quart. Jour. Micr. Sci. (n.s.), LXIII, 1-30, 2 pls., 1 text-fig.

The bibliography presents 28 titles.

1919 A

Restoration of the head of *Osteolepis*.

Jour. Linn. Soc. Zool., XXXIV, 181-188, 6 figs.

The bibliography presents 15 titles.

1922 A

On a new type of teleostean cartilaginous pectoral girdle found in young clupeids.

Jour. Linn. Soc. Zool., XXXIV, 505-509, 6 figs.

There is a bibliography of 10 titles.

Goodrich, Edwin S.—Continued 1924 A

The origin of land vertebrates.

Nature, CXIV, 935-936, 1 fig.

Abstract in Neues Jahrb. Minn. Geol. Pal., 1925, 286.

See also Rep. Brit. Assoc. Adv. Sci., Toronto, 1924.

Goodsir, J.

1857 A

On the morphological constitution of the vertebrate head.

Edmb. New Philos. Jour., v, 123-178.

Also in his "Anatomical Memoirs," II, 1868, 88-197.

1857 B

On the morphological constitution of limbs.

Edmb. New Philos. Jour., v, 178-181.

Also in his "Anatomical Memoirs," II, 1868, 198-203.

1868 A

On the follicular stage of dentition in the ruminants, with some remarks on that process in the other orders of Mammalia.

Anatomical Memoirs, II, 53-55.

Said to be extracted from Trans. Brit. Assoc. Adv. Sci., Aug. 1893; evident error.

Goodyear, Watson A.

1890 A

Remarks on elephant remains found on Santa Rosa Island.

Rep. Calif. State Min. Bur., for 1889, 169.

Gordon, Charles Henry

1913 A

Geology and underground waters of the Wichita region, north-central Texas.

U. S. Geol. Surv. Water-suppl. Pap., CCCXVII, 1-88, 1 map, 1 plate.

Gordon, Reginald

1902 A

Bones of a mastodon found.

Science (n.s.), XVI, 594.

Brief abstract in Geol. Centralbl., IX, 486.

1902 B

Tree trunks found with mastodon remains.

Science (n.s.), XVI, 1033.

Gorjanovič-Kramberger, D.

1891 A

Palaeoichthyologzki priloz. (Collectae palaeoichthyologicae.)

Rad Jugoslav. Akad., CVI, 59-129, 8 pls.

Gorjanovič-Kramberger, Karl

1905 A

Die obertriadische Fischfauna von Hallein in Salzburg.

Beitr. Pal. Geol. Oesterr.-Ung., XVIII, 1905, 193-224, pls. xvii-xxi, 19 text-figs.

- Gosselet, Jules A.** 1875 A
Mâchoire de *Ptychodus latissimus*.
Ann. Soc. géol. Nord., 12, 121.
"M. Gosselet annonce la découverte à Condé d'une mâchoire à peu près complète de *Ptychodus latissimus* (42 dents)."
- Gottlieb, Hedwig** 1914 A
Die Antiklinie der Wirbelsäule der Säugetiere.
Morphol. Jahrb., xlii, 179-220, pls. vii-xiii, 2 text-figs.
Reviewed in Neues Jahrb. Min. Geol. Pal., 1916, i, 261-265.
- Gould, A. A.** 1848 A
Fossil *Mallotus villosus*.
Proc. Bost. Soc. Nat. Hist., iii, 64.
- Gould, Charles Newton** 1901 A
Notes on the fossils from the Kansas-Oklahoma Red-beds.
Jour. Geol., ix, 337-340.
- Graham, James C.** 1801 A
Further account of fossil bones in Orange and Ulster Counties (N. Y.).
Med. Report. N. Y., iv, 213-214.
- Grandidier, G.** 1912 A
Un nouvel exemple d'extinction de formes animales géantes voisines d'espèces actuelles.
C. R. Acad. Sci. Paris, clii, 399-401, 1 fig.
- Granger, Walter** 1908 A
A revision of the American Eocene horses.
Bull. Amer. Mus. Nat. Hist., xxiv, 221-264, pls. xv-xviii, 5 text-figs.
Abstracts in Geol. Centralbl., xiii, 394;
Amer. Jour. Sci. (4), xxv, 523; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 163.
- 1908 B
Studies on the American hyracotheres.
Science (n.s.), xxvii, 256.
- 1909 A
Faunal horizons of the Washakie formation of southern Wyoming.
Bull. Amer. Mus. Nat. Hist., xxvi, 13-24, pls. ii-vi, 3 text-figs.
Abstract in Geol. Centralbl., xv, 308.
- 1910 A
Tertiary faunal horizons in the Wind River Basin, Wyoming, with descriptions of new Eocene mammals.
Bull. Amer. Nat. Hist., xxviii, 235-251, pls. xx-xxiii, 6 text-figs.
Reviewed in Amer. Jour. Sci. (4), xxxi, 151-152. Abstracts in Geol. Centralbl., xvi, 214; Sci. Progress., v, 664-670.
- Granger, Walter—Continued** 1911 A
Earliest known ancestor of the modern horse, the small four-toed *Eohippus*, discovered in the Bad-lands of Wyoming.
Amer. Mus. Jour., xi, 85-88, 5 figs.
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 The base of the cranium in anthropoids and man.
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 Bull. Amer. Mus. Nat. Hist., XXXV, 239-257, pl. i, 18 text-figs.
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- 1916 D
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 Science (n.s.), XLII, 105-107.
- 1917 A
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- 1917 B
 The coal measures Amphibia of North America.
 Amer. Naturalist, LI, 311-320.
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 Followed by appendices presenting remarks by R. Broom, D. M. S. Watson and S. W. Williston.
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 Amer. Naturalist, LI, 622-635.
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 The evolution of orthodonty.
 Dental Cosmos, May 1918
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 Pages 250-263 are occupied by the extensive bibliography.
 Abstract in Sci. Progress, XVI, 213.
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 Bull. Amer. Mus. Nat. Hist., **xlii**, 265-284, pl. xviii, 26 text-figs.
 There is a bibliography of 15 titles.
 Abstract in Sci. Progress, **xvi**, 214.
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- 1920 C**
 Restoration of *Camarasaurus* and life model.
 Proc. Nat. Acad. Sci., **vi**, 16.
 Abstract in Geol. Zentralbl., **xxv**, 540.
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 On the structure and relations of *Northarctus*, an American Eocene primate.
 Mem. Amer. Mus. Nat. Hist. (n.s.), **iii**, pt. ii, 49-243, pls. xxxiii-lx, 84 text-figs.
 The bibliography, 242-243, presents 62 titles.
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 Erwin S. Christman, 1885-1921. Draughtsman, artist, sculptor.
 Nat. Hist., **xxi**, 620-625, 7 figs.
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- 1922 A**
 The origin and evolution of the human dentition.
 Baltimore. Williams and Wilkins Co., i-xviii+1-548 pages, 15 pls., 353 text-figs.
 The bibliography is found on pages 520-530.
 Note on in Anat. Anz., **lvi**, 303.
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- 1923 A**
 A Jurassic fish fauna from western Cuba, with an arrangement of the families of holostean ganoid fishes.
 Bull. Amer. Mus. Nat. Hist., **xlvi**, 223-242, 6 figs.
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- 1923 B**
 A forerunner of the horned dinosaurs.
 Nat. Hist., **xxiii**, 192.
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 A fossil ganoid fish (*Lepidotus? lacotanus*, new species) from the Lower Cretaceous of South Dakota.
 Amer. Mus. Novit., No. **cxxxiv**, 1-8, 1 fig.
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- 1924 B**
 The gorilla's foot.
 Nature, **cxxx**, 421-422; 457-458, 6 figs.
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- Gregory, W. K.—Continued 1925 A**
 A dissenting opinion.
 Proc. Nat. Acad. Sci., **xi**, art. 12, 751.
 In Osborn, H. F., 1925 C.
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- 1926 A**
 The skeleton of *Moschops capensis* Broom, a dinocerophalian reptile from the Permian of South Africa.
 Bull. Amer. Mus. Nat. Hist., **lvi**, 179-251, pls. 1-xxi, 29 text-figs.
 The bibliography comprises 32 titles.
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- 1926 B**
 Paleontology of the human dentition. Ten structural stages in the evolution of the cheek teeth.
 Amer. Jour. Phys. Anthrop., **ix**, 401-426, 8 figs.
 The bibliography includes 7 titles.
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- 1927 A**
 Two views of the origin of man.
 Science (n.s.), **lxv**, 601-605.
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- 1927 B**
 Mongolia the new world.
 Scient. Monthly, **xxiv**, 5-14, with figs.
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 The Mongolian life record.
 Scient. Monthly, **xxiv**, 169-181, 10 figs.
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- 1927 D**
 Mongolian mammals of the "Age of Reptiles."
 Scient. Monthly, **xxiv**, 225-235, 10 figs.
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- 1927 E**
 The Mongolian age of mammals.
 Scient. Monthly, **xxiv**, 337-347, 9 figs.
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- 1927 F**
 Did man originate in central Asia?
 Scient. Monthly, **xxiv**, 385-401, 8 figs.
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- 1927 G**
 The palæomorphology of the human head: Ten structural stages from fish to man. I: The skull in norma lateralis.
 Quart. Rev. Biol., **ii**, 267-279, 5 figs.
 The bibliography comprises 30 titles.
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- 1927 H**
Hesperopithecus apparently not an ape nor a man.
 Science (n.s.), **lxvi**, 579-581.
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- 1927 I**
 How near is the relationship of man to the chimpanzee-gorilla stock?
 Quart. Rev. Biol., **ii**, 549-560, 9 figs.
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- 1928 A**
 A tour of the new fish hall.
 Nat. Hist., **xxvii**, 2-17, figs. 1-11.

Gregory, W. K., and L. A. Adams

1915 A

The temporal fossæ of vertebrates in relation to the jaw muscles.

Science (n.s.), xli, 763-765.

— and C. L. Camp

1918 A

Studies in comparative myology and osteology. No. III.

Bull. Amer. Mus. Nat. Hist., xxxviii, 447-563, pls. xxxix-l.

Reviewed in Nat. Hist., xix, 731-732.

— and H. J. Cook

1926 A

New materials for the study of evolution: A series of primitive fossil rhinoceros skulls (*Trigonias*) from the Lower Eocene of Colorado.

Geol. Soc. Amer. Prelim. list, xxxix, 59.

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1927 A

New material for the study of evolution: A series of primitive fossil rhinoceros skulls (*Trigonias*) from the Lower Oligocene of Colorado.

Bull. Geol. Soc. Amer., xxxviii, 235.

— and Milo Hellman

1923 A

Notes on the type of *Hesperopithecus haroldcookii* Osborn.

Amer. Mus. Novit., lxi, 1-16, 5 pages of figures.

Abstracts in Rev. crit. Palæozool., xxvii, 216; Neues Jahrb. Min. Geol. Pal., 1923, ii, 290.

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1923 B

Further notes on the molars of *Hesperopithecus* and *Pithecanthropus*.

Bull. Amer. Mus. Nat. Hist., xlviii, 509-530, 15 figs.

Abstract in Geol. Zentralbl., xxx, 253.

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1926 A

The dentition of *Dryopithecus* and the origin of man.

Anthrop. Pap. Amer. Mus. Nat. Hist., xxviii, 1-123, pls. i-xxv, 32 text-figs.

The bibliography presents 88 titles.

—, and R. Kellogg

1927 A

A fossil porpoise from California.

Amer. Mus. Novit., cclxix, 1-7, 3 figs.

—, R. W. Miner, and G. K. Noble

1923 A

The carpus of *Eryops* and the structure of the primitive chiropterygium.

Bull. Amer. Mus. Nat. Hist., xlviii, 279-288, 4 figs.

There is a bibliography of 12 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1924, i, 276; Geol. Zentralbl., xxx, 444; Nature, cxii, 806.

Gregory, W. K., and C. C. Mook

1925 A

On *Protoceratops*, a primitive ceratopsian dinosaur from the Lower Cretaceous of Mongolia.

Amer. Mus. Novit., cxvi, 1-9, 3 figs.

The bibliography comprises 27 titles.

—, and G. K. Noble

1924 A

The origin of the mammalian alisphenoid bone.

Jour. Morph., xxxix, 435-461, pl. i, 13 text-figs.

The bibliography presents 33 titles.

—, and G. G. Simpson

1920 A

Cretaceous mammal skulls from Mongolia.

Amer. Mus. Novit., cxxv, 1-20, 19 figs.

— See Berry, E. W., and W. K.

Gregory

1906 A

— See also Granger and Gregory.

Grevé, Carl

1891 A

Die geographische Verbreitung der Hyænen und Caniden.

Zool. Jahrb. Syst., v, 400-424.

There is appended a list of 41 works on the subject.

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1900 A

Die geographische Verteilung der Wildschafe.

Korres.-Bl. Ver. Riga, xliii, 131-145.

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1901 A

Die Verbreitung von *Ovibos moschatus* Blainv. einst und jetzt.

Sitz.-Ber., naturf. Ges. Dorpat, xii (1900), 371-374.

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1902 A

Die fossilen und recenten Edentaten und deren Verbreitung.

Sitz.-Ber. naturf. Ges. Dorpat., xiii, 77-107.

Abstracts in Geol. Zentralbl., v, 376; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 2, 183.

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1905 A

Was wir über Stellers Seekuh wissen.

Korres.-Bl. Ver. Riga, xlviii, 145-156, 4 figs., a map.

There is a bibliography of 75 titles.

- Grevé, Carl**—Continued 1911 A
Schädel der Stellerschen Seekuh.
Korres.-Bl. Ver. Riga, LV, 37, figure.
A figure is presented to illustrate Grevé's
paper in volume XLVIII, 145-156, of the same
journal.
- Grier, N. M.** See Hitchcock and Grier.
- Grieve, Symington** 1883 A
Notice of the discovery of remains
of the great auk or garefowl (*Alca
impennis*, L.) on the Island of Oron-
say, Argyllshire.
Jour. Linn. Soc. Zool., xvi, 479-487, pl. ix.
- Grinnell, George Bird** 1904 A
The mountain sheep and its range.
Pages 270-348 in American Big Game and
Its Haunts, by George Bird Grinnell.
- 1923 A
An old-time bone hunt.
Nat. Hist., xxxiii, 329-336, 2 figs.
An account of the expedition undertaken
by Prof. O. C. Marsh in 1870 to the then
Wild West, with pictures of the members
of the party.
- Grinnell, Hilda Wood** 1918 A
A synopsis of the bats of California.
Univ. Calif. Publ. Zool., xvii, 223-404, pls.
xiv-xxiv, 24 text-figs.
Pages 376-382 are the bibliography.
- Grinnell, J.** 1912 A
The bighorn of the Sierra Nevada.
Univ. Calif. Publ. Zool., x, 143-153, text-
figs. i-iv.
Describes *Ovis cervina sierræ*, n. subsp.
- Grobbe, K.** 1904 A
Ueber das Becken der Sirenen.
Verh. zool.-bot. Ges. Wien, LV, 142-143.
- Groghan, George** 1831 A
Journal of voyage to explore the
country adjacent to the Ohio River.
Monthly Amer. Jour. Geol., I, 257-272.
Voyage made in 1765 to Bigbone Lick,
Kentucky.
- Grote, Albert** 1926 A
Über das knorpelige und knöcherne
Nasenskelett eines *Siredon pisciformis*.
Morphol. Jahrb., LVI, 459-488, 6 figs.
In the bibliography are 23 titles.
- Grote, Hermann** 1902 A
Ueber die Functionen des Vogel-
schnabels.
Ornith. Monatsber., x, 59-63.
- Gruber, Wenzel** 1873 A
Ueber supernumeräre Knochen im
Jochbogen.
Arch. Anat., Physiol., Med., 1873, 337-347,
pl. vii.
- Gudernatsch, J. F.** 1909 A
Manatus latirostris Harl. Biolo-
gische und morphologische Beiträge.
Zool. Jahrb. Syst., xxvii, 225-236, pl. ix,
3 text-figs.
- Gudger, E. W.** 1907 A
A note on the hammerhead shark
(*Sphyrna zygaena*) and its food.
Science (n.s.), xxv, 1005-1006.
- 1910 A
The jaws of the spotted sting ray,
Aetobatus narinari.
Jour. Elisha Mitchell Sci. Soc., xxvi, 58-59.
See also Science (n.s.), xxxi, 917.
- 1914 A
History of the spotted eagle ray,
Aetobatus narinari, together with a
study of its external structures.
Publ. Carnegie Instn. Wash., No. 183,
243-323, 10 pls., 19 text-figs.
Appended is an extensive bibliography.
- 1918 A
Sphyræna barracuda; its morphol-
ogy, habits and history.
Publ. Carnegie Instn. Wash., No. 252,
art. iv, 55-108, pls. i-vii, 5 text-figs.
The bibliography comprises 62 titles.
- Günther, Albert C.** 1847 A
Von dem Rumpfskelett des *Hydrar-
chus*.
In Carus, C. G., 1847 A, 9-12.
- 1858 A
On the systematic arrangement of
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- 1876 A
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Encyclop. Brit., 9th ed., xxii, 67-69, 5
text-figs.
- 1898 A
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Is accompanied by a list of 51 papers on
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Ann. Mag. Nat. Hist. (8), II, 523-524.
- Guérin, Raoul** 1874 A
Études zoologiques et paléontolo-
giques sur la famille des céstacés.
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Pages 135-145 are the bibliography.

- Guernsey, J. A.** 1831 A
Mastodon near Rochester, N. Y.
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- Guitel, Frédéric** 1896 A
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Arch. Zool. Exper. (3), iv, 345-470, pls. vi-x, 9 text-figs.
- Guldberg, Gustav** 1894 A
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- 1903 A
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Biol. Centralbl., xxiii, 803-816.
- 1904 A
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Continued from vol. xxiii, 816.
Appended is a bibliography of 48 titles.
- Gulliver, George** 1869 A
On certain nondescript bones in the skull of osseous fishes.
Ann. Mag. Nat. Hist. (4), iv, 397-398, 1 fig.
- Gutberlet, John Earl** 1915 A
On the osteology of some of the Loricati.
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- H. H.** 1927 A
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Mus. Graphic, i, 165-167, 2 figs.
- Haacke, Wilhelm** 1886 A
Der Nordpol als Schöpfungszentrum der Landfauna.
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- Haeckel, Ernst** 1868 A
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8vo., i-xvi+1-568 pages, with pls. and figs. First edition.
- 1873 A
Natürliche Schöpfungsgeschichte.
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Translation into English in two volumes, 1876, revised by E. Ray Lankester.
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- Hahn, Walter L.** 1909 A
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A descriptive catalogue of the mammals occurring in Indiana in recent times.
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- 1927 A
Species of the mammalian subfamily *Bassariscinae*.
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- 1871 B
Mounting of the Cohoes mastodon skeleton.
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- Hanke, Herbert** 1914 A
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Results of preliminary examination of seven samples of sediments from near Lomita.
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Notes on the Tertiary sirenians of the genus *Desmostylus*.
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The coracoid of *Sus scrofa*.
Anat. Record, xvi, 197-202, 6 figs.
- 1919 B
The ontogeny and phylogeny of the sternum.
Amer. Jour. Anat., xxvi, 41-115, 49 figs.
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The history of the earliest stages in the human clavicle.
Anat. Record, xix, 309-317, pls. i-iv.
There is a bibliography of 12 titles.
- 1920 B
The problem of the coracoid.
Anat. Record, xix, 327-342, pls. i, ii.
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- Harlé, Edouard** 1901 A
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The development of the fins of teleosts.
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Ueber den Bau des Gehörorganes von *Siredon piciformis* und über die vergleichende Anatomie des Kiefer-suspensorium.
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Note on the claspers of *Heptanchus*.
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- 1901 C
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Diplodocus (Marsh): Its osteology, taxonomy, and probable habits, with a restoration of the skeleton.
Mem. Carnegie Mus., I, 1-63, pls. i-xiii, text-figs. 1-23.
Describes the new species *D. carnegii*.
Abstracts in Geol. Centralbl., III, 28; Rev. crit. Paléozoool., vi, 108-113; Science (2) xiv, 831.
- 1901 E
On the structure of the manus in *Brontosaurus*.
Science (n.s.), xiv, 1015-1017.
Abstract in Geol. Centralbl., III, 119.

Hatcher, J. B.—Continued 1902 A
A mounted skeleton of *Titanotherium dispar* Marsh.

Ann. Carnegie Mus., I, 347-355, pls. xvi-xviii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 299; Geol. Centralbl., IV, 299.

1902 B
Structure of the fore limb and manus of *Brontosaurus*.

Ann. Carnegie Mus., I, 356-376, pls. xix, xx, 14 text-figs.

Abstract in Geol. Centralbl., IV, 299; Rev. crit. Paléozoöl., VII, 76-77.

1902 C
The genera and species of the Trachodontidae (Hadrosauridae, Claosauridae) Marsh.

Ann. Carnegie Mus., I, 377-386

Abstract in Geol. Centralbl., IV, 401

1902 D
Origin of the Oligocene and Miocene deposits of the Great Plains.

Proc. Amer. Philos. Soc., XL, 113-131

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1902 E
Discovery of a musk-ox skull (*Ovibos cavifrons*) in West Virginia, near Steubenville, Ohio.

Science (n.s.), XVI, 707-709.

1902 F
Oligocene Canidae.
Mem. Carnegie Mus., I, 65-108, pls. xiv-xx, 7 text-figs.

Reviewed in Amer. Naturalist, XXXVII, 498-499, Neues Jahrb. Min. Geol. Pal., 1904, II, Ref., 308-311; Geol. Centralbl., III, 310; Rev. crit. Paléozoöl., VII, 168; Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 126.

Although the paper is dated Sept. 1902, the author's abstract states that it was not issued until Feb. 1903.

1902 G
Field work in vertebrate paleontology at the Carnegie Museum for 1902.

Science (n.s.), XVI, 752.

1902 H
A correction of Professor Osborn's note entitled "New Vertebrates of the Mid-Cretaceous."

Science (n.s.), XVI, 831-832.

Abstracts in Geol. Centralbl., IX, 467; Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 105.

Hatcher, J. B.—Continued 1903 A
Osteology of *Haplocanthosaurus*, with description of a new species, and remarks on the probable habits of the Sauropoda and the age and origin of the Atlantosaurus beds.

Mem. Carnegie Mus., II, 1-72, pls. i-v, 28 text-figs.

Abstracts in Geol. Centralbl., V, 144; Rev. crit. Paléozoöl., VIII, 78-80.

1903 B
Discovery of remains of *Astrodon* (*Pleurocoelus*) in the Atlantosaurus beds of Wyoming.

Ann. Carnegie Mus., II, 9-14, 6 text-figs.

Abstracts in Geol. Centralbl., IX, 487; Rev. crit. Paléozoöl., VIII, 12.

1903 C
Vertebrate paleontology at the Carnegie Museum.
Science (n.s.), XVIII, 569-570.

1903 D
Relative age of the Lance Creek (Ceratops) beds of Converse County, Wyoming, the Judith River beds of Montana and the Belly River beds of Canada.

Amer. Geologist, XXXI, 369-375.

Abstract in Geol. Centralbl., VI, 754.

1903 E
Additional remarks on *Diplodocus*.
Mem. Carnegie Mus., II, 72-75, pl. vi, 2 text-figs.

1903 F
A new sauropod dinosaur from the Jurassic of Colorado.

Proc. Biol. Soc. Wash., XVI, 1, 2.

Abstracts in Rev. crit. Paléozoöl., VIII, 12-13; Geol. Centralbl., XIII, 241; Jahresber. Anat. Entwickl. (N.F.), IX, pt. 3, 165.

1903 G
A new name for the dinosaur *Haplocanthus* Hatcher.

Proc. Biol. Soc. Wash., XVI, 100.

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Abstract in Geol. Centralbl., XII, 70.

1904 A
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Proc. Amer. Philos. Soc., XLII, 341-365, 2 text-figs.

Abstract in Geol. Centralbl., VIII, 52.

- Hatcher, J. B.**—Continued 1905 A
Two new Ceratopsia from the Laramie of Converse County, Wyoming [with editorial notes by Richard S. Lull].
Amer. Jour. Sci. (4), xx, 413-419, pls. xii, xiii.
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- 1905 B
Vertebrate fauna [of the Judith River beds].
Bull. U. S. Geol. Surv., cclvii, 67-103.
- 1907 A
The Ceratopsia.
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Abstracts in Nature, lxxviii, 544-545, with figure, Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 449-450; Zeitschr. Indukt. Abstamm. Vererb.-Lehre, ii, 1909, 349-350; Sci. Progress, iii, 459; Rev. crit. Paléozool., xiii, 76-79; Amer. Jour. Sci. (4), xxvi, 98-99.
- Hatschek, B.** 1889 A
Die paarigen Extremitäten der Wirbeltiere.
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- 1889 B
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Anat. Anz., Ergänzungsh., iv, 113-126, 6 text-figs.
- 1893 A
Zur Metamerie der Wirbeltiere.
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- Haug, Émile** 1911 A
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On the muscular anatomy of the alligator.
Ann. Mag. Nat. Hist. (4), i, 282-292, pl. x.
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Some new carnivorous Therapsida, with notes upon the brain-case in certain species.
Ann. S. African Mus., xii, 175-216, figs. 45-59.
- Haughton, S. H.**—Continued 1920 A
A review of the reptilian fauna of the Karroo system of South Africa.
Trans. Geol. Soc. S. Africa, xxii, 1-25, 4 figs.
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Quart. Jour. Geol. Soc., lxxx, 1-11, pls. i, ii, 3 text-figs.
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The presence of a vestigial sixth branchial arch in the Heterodontidae.
Jour. Anat., Physiol. Lond., xl, 81-84, 2 text-figs.
- Hawkins, A. C.** 1914 A
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Report of progress of work accomplished at the Palaeozoic Museum, in the Central Park, New York.
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Report of Major F. Hawn, assistant geologist.
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Amer. Naturalist, xxii, 315-321, 1 fig.
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- 1889 B
Notes on the habits of some amblystomas.
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Zool. Bull., i, 131-141.
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Ann. Mag. Nat. Hist. (7), iii, 480-487, 5 figs.
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The chronological distribution of the elasmobranchs.
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Science (n.s.), xiii, 624 (abstract).
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Descriptions of two species of extinct tortoises, one new.
Proc. Acad. Nat. Sci. Phil., lvi, 1902, 383-388, figs. 1-7.
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- Hay, O. P.—Continued** 1902 D
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- 1902 E
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- 1902 F
Snout-fishes of Kansas.
Science (n.s.), xv, 470.
Abstracts in Ann. N. Y. Acad. Sci., 1903, xv, 15, and Amer. Geologist, xxxix, 192-193.
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On certain genera and species of North American Cretaceous actinopteros fishes.
Bull. Amer. Mus. Nat. Hist., xix, 1-95, pls. i-v, 72 text-figs.
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- 1903 B
Description of a new genus and species of tortoise from the Jurassic of Colorado.
Ann. Carnegie Mus., ii, 201-203, pl. iii.
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Proc. Amer. Philos. Soc., xlii, 268-274.
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- 1903 D
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Amer. Geologist, xxxii, 115-120.
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Two new species of fossil turtles from Oregon.
Bull. Dept. Geol. Univ. Calif., iii, 237-241, 6 text-figs.
Abstract in Geol. Centralbl., v, 376.
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- 1903 F
On an important but not well-known locality furnishing Cretaceous fishes.
Science (n.s.), xvii, 219 (abstract).
See also Bull. Geol. Soc. Amer., xiv, 542.
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- 1903 G
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Amer. Naturalist, xxxvii, 685-695.
Abstract in Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 152.

- Hay, O. P.—Continued** 1903 H
A collecting trip in the Bridger deposits.
Science (n.s.), xviii, 349-350.
- 1903 I
On a collection of Upper Cretaceous fishes from Mount Lebanon, Syria, with descriptions of four new genera and nineteen new species.
Bull. Amer. Mus. Nat. Hist., xix, 395-452, pls. xxiv-xxxvii.
Abstract in Geol. Centralbl., iv, 403, 1903.
- 1904 A
On some fossil turtles belonging to the Marsh collection in Yale University Museum.
Amer. Jour. Sci. (4), xviii, 261-276, pls. xi-xvi, 7 text-figures.
Abstract in Geol. Centralbl., vi, 714
- 1904 B
On the finding of skulls of Trionychidae in the Bridger deposits of Wyoming.
Science (n.s.), xix, 254.
- 1904 C
A new gigantic tortoise from the Miocene of Colorado.
Science (n.s.), xix, 503-504.
Abstracts in N. Y. Acad. Sci., xvi, 312, and in Geol. Centralbl., x, 426
- 1905 A
On the group of fossil turtles known as the Amphichelydia; with remarks on the origin and relationships of the suborders, super-families, and families of Testudines.
Bull. Amer. Mus. Nat. Hist., xxi, 137-175, 5 text-figs.
Abstracts in Geol. Centralbl., viii, 377; Rev. crit. Paléozoöl., x, 150-153.
- 1905 B
On two species of turtles from the Judith River beds of Montana.
Ann. Carnegie Mus., iii, 178-182, pl. ix, 2 text-figs.
Abstract in Geol. Centralbl., x, 371.
- 1905 C
The progress of vertebrate palaeontology at the American Museum of Natural History, New York.
Amer. Geologist, xxxv, 31-34.
- 1905 D
Report of meeting of Section A of the American Palaeontological Society.
Amer. Geologist, xxxv, 124-126.
- Hay, O. P.—Continued** 1905 E
A revision of the species of the family of fossil turtles called Toxichelyidae, with descriptions of two new species of *Toxochelys* and a new species of *Portochelys*.
Bull. Amer. Mus. Nat. Hist., xxi, 177-185, figs. 1-16
Abstracts in Geol. Centralbl., viii, 377, Rev. crit. Paléozoöl., x, 149.
- 1905 F
On the skull of a new trionychid, *Conchochelys admirabilis*, from the Puerco beds of New Mexico.
Bull. Amer. Mus. Nat. Hist., xxi, 335-338, 3 text-figs.
Abstracts in Geol. Centralbl., viii, 377; Rev. crit. Paléozoöl., xi, 149.
- 1905 G
The fossil turtles of the Bridger basin.
Amer. Geologist, xxxv, 227-242, 1 figure.
Abstracts in Geol. Centralbl., x, 424; Ann. N. Y. Acad. Sci., xvii, 592
- 1905 H
The temporal roof of the skull of the reptiles.
Science (n.s.), xxi, 295-296.
- 1905 I
On the group of fossil turtles known as the Amphichelydia.
Science (n.s.), xxi, 297.
- 1905 J
Turtles of the Bridger basin.
Science (n.s.), xxi, 932.
Abstract in Ann. N. Y. Acad. Sci., xvii, 592.
- 1906 A
Descriptions of new species of turtles of the genus *Testudo*, collected from the Miocene by the Carnegie Museum; together with a description of the skull of *Stylemys nebrascensis*.
Ann. Carnegie Mus., iv, 15-20, pls. iii-viii, 11 text-figures.
Abstract in Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 302
- 1906 B
Descriptions of two new genera (*Echmatemys* and *Xenochelys*) and two new species (*Xenochelys formosa* and *Terrapene putnami*) of fossil turtles.
Bull. Amer. Mus. Nat. Hist., xxii, 27-31, 7 text-figs.
Abstracts in Neues Jahrb. Min., Geol., Pal., 1910, ii, Ref., 302; Rev. crit. Paléozoöl., x, 150; Sci. Progress, i, 460.

Hay, O. P.—Continued 1906 C
On two interesting genera of Eocene turtles, *Chisternon* Leidy and *Anosteira* Leidy.

Bull. Amer. Mus. Nat. Hist., xxii, 155-160, 3 text-figs.

Abstracts in Geol. Centralbl., xi, 474-475; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 302; Rev. crit. Paléozool., xi, 149.

1906 D
Descriptions of *Terrapene eurypygia* and *Chelydra serpentina*.

Maryland Geol. Surv. Pliocene and Pleistocene, 169, 170, pl. xl, fig. 2.

1907 A
A new genus and species of fossil shark related to *Edestus* Leidy.

Science (n.s.), xxvi, 22-24, 1 fig.

1907 B
Descriptions of seven new species of turtles from the Tertiary of the United States.

Bull. Amer. Mus. Nat. Hist., xxiii, 847-863, pl. liv, 20 text-figs.

Abstract in Geol. Centralbl., xi, 332.

1907 C
A new fossil stickleback fish from Nevada.

Proc. U. S. Nat. Mus., xxxii, 271-273, 3 text-figs.

Abstracts in Geol. Centralbl., xi, 334; Sci. Progress, ii, 522; Rev. crit. Paléozool., xi, 227.

1908 A
The fossil turtles of North America. Carnegie Instn. Wash. Publ. No. 75, i-iv + 1-568 pages, pls. 1-113, 704 text-figs.

Reviewed in Science (n.s.), xxviii, 1908, 803-804; Amer. Jour. Sci., xxvi, 516; Sci. Progress, iii, 465-467; Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 451-452; Geol. Zentralbl., xiii, 241-244; Science (n.s.), xxix, 341-342; Naturw. Rundschau, xxiv, 1909, 652-654; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 159; Nature, lxxix, 91.

1908 B
Dr. W. J. Holland on the skull of *Diplodocus*.

Science (n.s.), xxviii, 517-519.

1908 C
On the habits and the pose of the sauropod dinosaurs, especially of *Diplodocus*.

Amer. Naturalist, xlii, 672-681.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 442-443; Sci. Progress, iii, 463; Nature, lxxix, 104; Naturw. Rundschau, xxiv, 1908, 162.

Hay, O. P.—Continued 1908 D
Descriptions of five species of North American fossil turtles, four of which are new.

Proc. U. S. Nat. Mus., xxxv, 161-169, pls. xxvi-xxvii, 3 text-figs.

Abstract in Geol. Centralbl., xii, 601; Rev. crit. Paléozool., 13, 80.

1908 E
On certain genera and species of carnivorous dinosaurs, with special reference to *Ceratosaurus nasicornis* Marsh.

Proc. U. S. Nat. Mus., xxxv, 351-366, 4 text-figures.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 443; Sci. Progress, iii, 469; Rev. crit. Paléozool., xiii, 79; Geol. Centralbl., xiii, 203; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 160.

1909 A
On the skull and brain of *Triceratops*, with notes on the brain-cases of *Iguanodon* and *Megalosaurus*.

Proc. U. S. Nat. Mus., xxxvi, 95-108, pls. i-iii.

Abstracts in Science (n.s.), xxix, 713; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 297; Rev. crit. Paléozool., 13, 203.

1909 B
Descriptions of two species of fossil turtles, *Toxochelys stenopora* and *Chisternon? interpositum*, the latter hitherto unknown.

Proc. U. S. Nat. Mus., xxxvi, 191-196, pl. v, 3 text-figs.

Abstracts in Geol. Centralbl., xiii, 204; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 298; Rev. crit. Paléozool., xiii, 154; Sci. Progress, iv, 671.

1909 C
On the nature of *Edestus* and related genera, with descriptions of one new genus and 3 new species.

Proc. U. S. Nat. Mus., xxxvii, 43-61, pls. xii-xv, 7 text-figures.

Abstracts in Science Progress, iv, 675-676; in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 329; Rev. crit. Paléozool., xiv, 16-18; Nature, lxxxii, 104.

1909 D
Dr. Williston on "The Fossil Turtles of North America."

Science (n.s.), xxxix, 341-342.

1909 E
The poses of *Diplodocus*. Die Umschau, Frankfurt a. M., Oct. 2, 1909, 829, fig. 5.

- Hay, O. P.—Continued** 1909 F
On restoration of skeletons of fossil vertebrates.
Science (n.s.), xxx, 93-95.
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- 1909 G
The geological and geographical distribution of some Pleistocene mammals.
Science (n.s.), xxx, 880-893.
Abstract in Geol. Centralbl., xiv, 487.
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- 1910 A
Descriptions of eight new species of fossil turtles from west of the one-hundredth meridian.
Proc. U. S. Nat. Mus., xxxviii, 307-326, pls x-xii, text-figs. 1-23.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 318; Rev. crit. Paléozoöl., xiv, 233.
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- 1910 B
Where do the Lance Creek ["Ceratops'"] beds belong, in the Cretaceous or in the Tertiary?
Proc. Indiana Acad. Sci., xxv, 277-303. Reprint, 1-27.
Abstract in Geol. Centralbl., xviii, 515.
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- 1910 C
On the manner of locomotion of the dinosaurs, especially *Diplodocus*, with remarks on the origin of the birds.
Proc. Wash. Acad. Sci., xii, 1-25, pl. 1, 7 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 289-290; Geol. Centralbl., xv, 311-312, Sci. Progress, v, 679-680.
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- 1910 D
On the changes of climate following the disappearance of the Wisconsin ice sheet.
Die Veränderungen des Klimas seit dem Maximum der letzten Eiszeit.
Internat. Geol. Congress, xi, Stockholm, 1910, 371-374.
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- 1911 A
A fossil specimen of the alligator snapper (*Macrochelys temminckii*) from Texas.
Proc. Amer. Philos. Soc., L, 452-455, pls. xviii, xix, 1 text-fig.
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- 1911 B
Further observations on the pose of the sauropodus dinosaurs.
Amer. Naturalist, xlv, 398-412.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 446; Nature, lxxxvii, 196.
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- Hay, O. P.—Continued** 1912 A
On an important specimen of *Edestus*; with description of a new species, *Edestus mirus*.
Proc. U. S. Nat. Mus., xlii, 31-38, 2 plates.
Abstracts in Geol. Centralbl., xviii, 523-524; Sci. Progress, viii, 24; Rev. crit. Paléozoöl., xvii, 79; Nature, lxxxix, 430.
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- 1912 B
The recognition of Pleistocene faunas.
Smithson Misc. Coll., lxx, No. 20, 1-16, 10 figures.
Abstract in Geol. Centralbl., xix, 644-645.
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- 1912 C
American Permian vertebrates.
Amer. Naturalist, xlii, 561-565.
A review of Williston, 1911 B.
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- 1912 D
The Pleistocene period [in Indiana] and its Vertebrata.
Geol. Surv. Ind., xxxvi, 538-784, pls. 1-xxxii, text-figs. 1-76.
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- 1912 E
Symposium on ten years progress in vertebrate paleontology. Chelonia.
Bull. Geol. Soc. Amer., xxiii, 212-220.
For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Merriam, Dean, Eastman, Osborn, Williston and Sinclair.
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- 1913 A
Descriptions of two new species of ruminants from the Pleistocene of Iowa.
Proc. Biol. Soc. Wash., xxvi, 5-7, 1 text-fig.
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- 1913 B
Notes on some fossil horses, with descriptions of four new species.
Proc. U. S. Nat. Mus., xlii, 569-594, pls. lxxix-lxxxi, 28 text-figures.
Abstracts in Geol. Centralbl., xx, 145; Rev. crit. Paléozoöl., xvii, 203.
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- 1913 C
The extinct bisons of North America; with description of one new species, *Bison regius*.
Proc. U. S. Nat. Mus., xlii, 166-200, pls. viii-xix, 10 text-figs.
Notes in L'Anthrop., Paris, xxvi, 1915, 153-154; Sci. Progress, viii, 631. Abstracts in Neues Jahrb. Min. Geol. Pal., 1919, Ref., 220-222; Geol. Zentralbl., xxi, 37; xxiii, 350; Nature, xcii, 563.

Hay, O. P.—Continued

1913 D

Camels of the fossil genus *Camelops*.

Proc. U. S. Nat. Mus., XLVI, 267-277, pls. xxv, xxvi, 1 text-fig.

Abstracts in Sci. Progress, VIII, 633; Rev. crit. Paléozool., XIX, 10; Geol. Zentralbl., XXI, 38; Nature, XCII, 563.

1913 E

Description of the skull of an extinct horse found in central Alaska.

Smithson. Misc. Coll., LXXI, No. 2, 1-18, pls. 1, II, 8 text-figs.

Abstract in Geol. Zentralbl., XX, 703.

1914 A

The Pleistocene mammals of Iowa.

Iowa Geol. Surv., XXXIII, 1-662, pls. i-lxxv, 142 text-figs.

Reviews by R. S. Lull in Amer. Jour. Sci. (4), XXXIX, 320-322; Geol. Mag. (6), III, 35.

1915 A

Contributions to the knowledge of the mammals of the Pleistocene of North America.

Proc. U. S. Nat. Mus., XLVIII, 515-575, pls. xxx-xxxvii, 5 text-figs.

The description of *Equus francini* was reprinted in The Veterinary Alumni Quarterly, [Columbus, Ohio], March 1916, 124-139, 2 figs.

Abstracts in Jour. Wash. Acad. Sci., v, 532-533; Nature, London, xcv, 298; Rev. crit. Paléozool., XXXIII, 19-21; L'Anthropologie, XXXIX, 115-117.

1915 B

A contribution to the knowledge of the extinct sirenian *Desmostylus hesperus* Marsh.

Proc. U. S. Nat. Mus., XLIX, 381-397, pls. lvi-lviii.

Abstracts in Nature, xcvi, 152; in Neues Jahrb. Min. Geol. Pal., 1917, I, 106; Geol. Mag. (6), II, 567.

1915 C

The extinct ground sloths of North America.

Science (n.s.), XII, 878.

1916 A

Investigation of the vertebrate paleontology of the Pleistocene epoch.

Publ. Carnegie Instn. Wash. Year Book No. 14, 286-287.

1916 B

Exhibition of skull of walrus.

Science (n.s.), XLIII, 330.

Hay, O. P.—Continued

1916 C

Descriptions of some Floridian fossil vertebrates, belonging mostly to the Pleistocene.

Rep. Florida Geol. Surv., VIII, 39-76, pls. 1-ix.

Abstract in Rev. crit. Paléozool., xxv, 11.

1916 D

Descriptions of two extinct mammals of the order Xenarthra from the Pleistocene of Texas.

Proc. U. S. Nat. Mus., LI, 107-123, pls. vi-vii.

1916 E

The Quaternary deposits at Vero, Florida, and the vertebrate remains contained therein.

Jour. Geol., xxv, 52-55.

Reprints of this paper were distributed a few days before Jan. 1, 1917.

Abstract in Geol. Zentralbl., xxx, 222-223.

1916 F

A new Pleistocene sloth from Texas.

Jour. Wash. Acad., vi, 24.

1917 A

A cervical vertebra of a deer from a deposit in Florida.

Science (n.s.), XLV, 72.

1917 B

Descriptions of some fossil vertebrates found in Texas.

Bull. Univ. Texas, 1916, No. LXXI, 1-24, pls. 1-IV. Not issued until after Jan. 1, 1917.

1917 C

On the finding of supposed Pleistocene human remains at Vero, Florida.

Jour. Wash. Acad. Sci., VII, 358-359.

1917 D

On a collection of fossil vertebrates made by Dr. F. W. Cragin in the Equus beds of Kansas.

Kan. Univ. Sci. Bull., x, 39-51, with pls. i-iii.

Abstract in Rev. crit. Paléozool., XXXIV, 97-98.

1917 E

Vertebrata mostly from stratum No. 3, at Vero, Florida, together with descriptions of new species.

Rep. Florida Geol. Surv., IX, 43-68, pl. iii, figs. 1-6.

Review in Science (n.s.), XLVII, 394-395.

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Hay, O. P.—Continued

1917 F

Description of a new species of extinct horse, *Equus lambei*, from the Pleistocene of Yukon Territory.

Proc. U. S. Nat. Mus., LIII, 435-443, pls. lvi-lviii.

Abstract in Geol. Zentralbl., XXVII, 508.

1917 G

Description of a new species of mastodon, *Gomphotherium elegans*, from the Pleistocene of Texas.

Proc. U. S. Nat. Mus., LIII, 219-221, pl. xxvi.

This paper was issued somewhat later than Hay, O. P., 1917 B.

Abstract in Geol. Zentralbl., XXVII, 508.

1917 H

Dean and Eastman's Bibliography of Fishes.

Amer. Naturalist, LI, 383-384

1917 I

On species of *Bison* (Abstract).

Bull. Geol. Soc. Amer., XXVIII, 212-213.

1918 A

A review of some papers on fossil man at Vero, Florida.

Science (n.s.), XLVII, 370-371.

1918 B

Further consideration of the occurrence of human remains in the Pleistocene deposits at Vero, Florida.

Amer. Anthropologist, XX, 1-36, 1 map.

1918 C

Quaternary vertebrates in southwestern Wisconsin.

U. S. Geol. Surv. Profess. Pap., CVI, 346-347.

1918 D

Dr. Aleš Hrdlička and the Vero man.

Science (n.s.), XLVIII, 459-462.

1919 A

Pleistocene geology and vertebrate paleontology of the Atlantic coast plain.

Publ. Carnegie Instn. Wash. Year Book No. 17 (1918), 311-312.

1919 B

On some proboscideans of the State of New York.

Science (n.s.), XLIX, 377-379.

Hay, O. P.—Continued

1919 C

Description of some mammalian and fish remains from Florida, of probably Pleistocene age.

Proc. U. S. Nat. Mus., LVI, 103-112, pls. xxvi-xxviii.

Brief review in Rev. crit. Paléozoool., XXIV, 140.

Abstract in Geol. Zentralbl., XXVII, 362.

1919 D

On the relative ages of some Pleistocene deposits.

Amer. Jour. Sci. (4), XLVII, 361-375.

Abstract in Geol. Zentralbl., XXV, 269.

1920 A

Report on work on Pleistocene paleontology.

Publ. Carnegie Instn. Wash. Year Book No. 18, 361-362.

1920 B

Descriptions of some Pleistocene vertebrates found in the United States.

Proc. U. S. Nat. Mus., LVIII, 83-146, pls. iii-xi, 4 text-figs.

Abstracts in Rev. Géol. et Sci. conn., IV, 1923, 96-98; Neues Jahrb. Min. Geol. Pal., 1923, I, 309.

Review in Rev. crit. Paléozoool., XXVII, 14.

1921 A

Descriptions of species of Pleistocene Vertebrata, types of specimens of most of which are preserved in the United States National Museum.

Proc. U. S. Nat. Mus., LIX, 599-642, with pls. cxvi-cxxiv.

Abstract in Rev. crit. Paléozoool., XXVI, 133.

1921 B

Report on investigation of work on the Pleistocene vertebrata.

Publ. Carnegie Instn. Wash. Year Book No. 19, for 1920, 402-404.

1922 A

Report on work done on the Pleistocene epoch and its vertebrate animals.

Publ. Carnegie Instn. Wash. Year Book No. 20, 445-446.

1922 B

Description of a new fossil sea cow from Florida, *Metaxytherium florida-num*.

Proc. U. S. Nat. Mus., LXXI, art. 17, 1-4, pl. i. Abstract in Rev. Geol. et Sci. conn., IV, 1923, 94. (Place of publication wrongly stated.)

Review in Rev. crit. Paléozoool., XXVII, 12.

Hay, O. P.—Continued 1922 C
On the phylogeny of the shell of the Testudinata and the relationships of *Dermochelys*.

Bibl. Serv. Wistar Inst., card 1043 (abstract).

1922 D
Observations on some extinct elephants.

1-19 pages, pls. i-iv; text-figs. 1-10.

Washington. Distributed by the author, June 12, 1922.

1922 E
On the phylogeny of the shell of the Testudinata and the relationships of *Dermochelys*.

Jour. Morphol., xxxvi, 421-445, pls. i, ii, 1 text-fig.

1922 F
Further observations on some extinct elephants.

Proc. Biol. Soc. Wash., xxxv, 97-102.

1922 G
Note on *Desmostylus hesperus*.

Acta Zool., iii, 392-393.

In Abel, O., 1922 E.

1923 A
The Pleistocene of North America and its vertebrated animals from the States east of the Mississippi River and from the Canadian Provinces east of longitude 95°.

Publ. Carnegie Instn. Wash., No. 322, i-vii+1-499 pages, with 41 maps and 25 text-figs.

Noticed in Amer. Jour. Sci. (5), v, 424-425; Nature, cxii, 111.

1923 B
Characteristics of sundry fossil vertebrates.

Pan-Amer. Geol., xxxix, 101-120, pls. vii-ix, text-figs. 4, 5.

1923 C
Description of remains of *Bison occidentalis* from central Minnesota.

Proc. U. S. Nat. Mus., lxxiii, art. 5, 1-8, pls. i, ii.

Review in Rev. crit. Paléozool., xxviii, 166, 1924.

Abstract in Nature, cxii, 67.

1923 D
Oligocene sea turtles of South Carolina.

Pan-Amer. Geol., xl, 29-31, pls. ii, iii.

Hay, O. P.—Continued 1923 E
Report on work done on the Pleistocene epoch and its vertebrate fossils.

Publ. Carnegie Instn. Wash. Year Book No. 21, 395.

1924 A
Description of some fossil vertebrates from the Upper Miocene of Texas.

Proc. Biol. Soc. Wash., xxxvii, 1-19, pls. i-vi, 1 text-fig.

1924 B
On the geological age of the Walker Hotel swamp deposit, in Washington, D. C., and on the origin and the age of the coastal plain terraces in general.

Jour. Wash. Acad. Sci., xiv, 255-264.

1924 C
Notes on the osteology and dentition of the genera *Desmostylus* and *Cornwallius*.

Proc. U. S. Nat. Mus., lxxv, art. 8, 1-8, 2 pls., 2 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1925, i, 446.

1924 D
The Pleistocene of the middle region of North America and its vertebrated animals.

Publ. Carnegie Instn. Wash. 322 A, i-vii+1-385 pages, 29 maps, 5 text-figs.

Remarks on in Amer. Jour. Sci. (5), ix, 83; Jour. Geol., xxxiii, 753.

Abstract in Geol. Zentralbl., xxxiii, 32.

1924 E
On the status of privately issued papers on systematic zoology.

Proc. Biol. Soc. Wash., xxxvii, 109-112.

1925 A
A further and detailed description of the type of *Elephas roosevelti* and descriptions of three referred specimens.

Proc. U. S. Nat. Mus., lxxvi, art. 34, 1-6, pls. i-iv, 1 text-fig.

1925 B
On remains of mastodons found in Texas, *Anancus brazosius* and *Gomphotherium cimarronis*.

Proc. U. S. Nat. Mus., lxxvi, art. 35, 1-5, pls. 1-4, 9 text-figs.

1925 C
Extinct proboscideans of Mexico.

Pan-Amer. Geol., xlv, 21-37, pls. iii, iv.

1925 D
On the correlation of certain Pleistocene deposits and their fossils.

Jour. Wash. Acad. Sci., xv, 239-246.

- Hay, O. P.—Continued** 1925 E
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Jour. Wash. Acad. Sci., xv, 381-387.
- 1926 A
Two new Pleistocene mastodons.
Jour. Wash. Acad. Sci., xvi, 35-41, pls. i, ii.
- 1926 B
Description of remains of an elephant found at Port Williams, Washington.
Jour. Wash. Acad. Sci., xvi, 154-159, with plate.
- 1926 C
A collection of Pleistocene vertebrates from southwestern Texas.
Proc. U. S. Nat. Mus., LXXIII, art. 24, 1-18, pls. i-viii, 2 text-figs.
- 1926 D
The geological age of Tuolumne Table Mountain.
Jour. Wash. Acad. Sci., xvi, 358-361.
- 1926 E
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Jour. Wash. Acad. Sci., xvi, 387-392.
- 1926 F
Professor Osborn on the mammals and the birds of the California tar pools.
Science (U. S.), LXIV, 426-427.
- 1927 A
On the type skull of *Equus laurientius* Hay.
Jour. Wash. Acad. Sci., xvii, 5-7.
- 1927 B
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Jour. Mamm., viii, 61-62.
- 1927 C
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Jour. Wash. Acad. Sci., xvii, 277-283.
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the Mississippi Historical Society, 228, Hil-
gard stated that this work was not dis-
tributed until early in 1866. The following
letter is attached to a copy in the U. S.
National Museum:
Washington, March 18, 1863.
Dear Sir: I have the pleasure of sending
you by mail, on the part of the Author, my
brother, a copy of his Report on the geology
and agriculture of the State of Mississippi.
The publication of this volume has been
delayed until now by the disturbed state of
political affairs. Yours very respectfully,
(Signed) J. E. Hilgard.
Dr. F. B. Meek, Albany.
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Science (n.s.), lxvi, 155.
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The osteology of the Chalicotheroidea; with special reference to a mounted skeleton of *Moropus elatus* Marsh, now installed in the Carnegie Museum.
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Skeletal remains suggesting or attributed to early man in North America.
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Vorläufiger Bericht über die triasischen Dinosaurier des europäischen Continents.
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Uebersicht über die Reptilien der Trias.
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Ueber das Hinterhaupt von *Megalosaurus bucklandi* aus Stonesfield.
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- Huene, Friedrich—Continued** 1906 B
Ueber die Dinosaurier der ausser-europäischen Trias.
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- 1906 C
Ueber die Foramina der Carotis interna und des Hypoglossus bei einigen Reptilien.
Centralbl. Min. Geol. Pal., 336-338.
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Skeletsystem. Paläontologisches.
Jahresber. Anat. Entwickl. (N.F.), xii, pt. 3, 150-167.
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- 1908 B
Die Dinosaurier der europäischen Triasformation mit Berücksichtigung der ausser-europäischen Vorkommnisse.
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Pages 1-64 of this work were issued in 1907. Pages 409-418 are occupied by a bibliography of the Dinosauria.
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- 1908 C
On the age of the reptile faunas contained in the Magnesian conglomerate at Bristol and in the Elgin Sandstone.
Geol. Mag. (5), v, 99-100.
- 1908 D
Zur Beurteilung der Sauropoden.
Zeitschr. deutsch. Geol. Ges., LX, Monatsb., 294-297.
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 Ein Beitrag zur Beurteilung der
 Sacralrippen.

Anat. Anz., xxxiii, 278-281.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
 1910, I, Ref., 296; Jahresber. Anat. Entwickl.
 (N.F.), xiv, pt. 3, 94.

1908 F

Beiträge zur Lösung der Praepubis-
 frage bei Dinosaurien und anderen
 Reptilien.

Anat. Anz., xxxiii, 401-405.

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 1910, I, Ref., 297; Sci. Progress, v, 680,
 Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3,
 120.

1908 G

On phytosaurian remains from the
 Magnesian conglomerate of Bristol
 (*Rileya platyodon*).

Ann. Mag. Nat. Hist. (8), I, 228-230.

Abstract in Geol. Centralbl., xi, 473, 604.

1908 H

Skeletsystem. Paläontologisches.

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1909 A

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sus.

Neues Jahrb. Min. Geol. Pal., 1909, I,
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1909 B

Skizze zu einer Systematik und
 Stammesgeschichte der Dinosaurier.

Centralbl. Min. Geol. Pal., 1909, 12-22.

Abstract in Jahresber. Anat. Entwickl.
 (N.F.), xv, pt. 3, 158.

1909 C

Ein primitiver Dinosaurier aus der
 mittleren Trias von Elgin.

Geol. Pal. Abh. Jena. (N.F.), viii (xii),
 317-322, pl. 1 (xliii), 2 text-figs.

Brief note on, in Neues Jahrb. Min. Geol.
 Pal., 1911, I, 145.

Abstract in Sci. Progress, v, 681.

1909 D

Neubeschreibung des permischen
 Stegocephalen *Dasyceps bucklandi*
 (Lloyd) aus Kenilworth.

Geol. Pal. Abh. Jena (N.F.), viii (xii),
 323-328, pls. i, ii (xlv, xlv), 14 text-figs.

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 Review of B. Brown: The Ancylo-
 sauridae, a new family of armored
 dinosaurs from the Upper Cretaceous
 (Brown, B., 1908 B).

Neues Jahrb. Min. Geol. Pal., 1909, I, Ref.,
 440-441.

1909 F

Vorläufige Mitteilung über einen
 neuen *Phytosaurus* Schädel aus dem
 Schwäbischen Keuper.

Centralbl. Min. Geol. Pal., 1909, 583-592,
 7 figs.

Abstract in Sci. Progress, v, 683.

1910 A

Über den ältesten Rest von *Omo-*
saurus (Dacentrurus) im englischen
 Dogger.

Neues Jahrb. Min. Geol. Pal., 1910, I,
 75-78, pl. vii, 1 text-fig.

1910 B

Über einen echten Rhynchocephalen
 aus der Trias von Elgin, *Brachyrhino-*
don taylori.

Neues Jahrb. Min. Geol. Pal., 1910, II,
 29-62, 28 text-figs

Abstract in Sci. Progress, v, 683.

1910 C

Review of O. P. Hay: Descriptions
 of two new genera and two new species
 of fossil turtles (Hay, O. P., 1906 B).

Neues Jahrb. Min. Geol. Pal., 1910, II, 302.

1910 D

Ein ganzes *Tylosaurus*-Skelett.

Geol. Pal. Abh., Jena (N.F.), viii (xii),
 297-314, pls. xli, xlii (Heft vi, 1-22, pls. 1,
 ii), 18 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
 1911, I, Ref., 146; Geol. Centralbl., xv, 128-
 127; Sci. Progress, v, 684; Rev. crit. Paléo-
 zool., xv, 208.

1910 E

Ein primitiver Dinosaurier aus der
 mittleren Trias von Elgin.

Geol. Pal. Abh., Jena (N.F.), viii (xii),
 315-322, pls. xlii (Heft vi, 1-30, pl. i), 2 text-
 figs.).

Abstract in Geol. Centralbl., xv, 62-63.

1910 F

Skeletsystem. Paläontologisches.

Jahresber. Anat. Entwickl. (N.F.), xiv,
 pt. 3, 147-163.

On pages 147-156 are listed 205 titles,
 abstracts of many of which are furnished
 on succeeding pages.

Huene, Friedrich—Continued 1911 A
Kurze Mitteilung über Perm, Trias
und Jura in New Mexico.

Neues Jahrb. Min. Geol. Pal., Beil.-Bd.
xxxii, 730-739, pl. xxxii, 2 text-figs.

1911 B

Über einen *Platecarpus* in Tübingen.

Neues Jahrb. Min. Geol. Pal., 1911, ii, 48-
50, pl. iii.

Abstracts in Geol. Centralbl., xvii, 335;
Sci. Progress, vi, 576.

1911 C

Beiträge zur Kenntnis des Ceratop-
sidenschädels.

Neues Jahrb. Min. Geol. Pal., 1911, ii,
146-162, 10 text-figs.

Abstracts in Geol. Centralbl., xviii, 330;
Neues Jahrb. Min. Geol. Pal., 1912, i, Ref.,
140-141; Jahresber. Anat. Entwickl. (N.F.),
xviii, pt. 3, 208.

1911 D

Ueber *Erythrosuchus*, Vertreter der
neuen Reptil-Ordnung *Pelycosima*.

Geol. Pal. Abh. Jena (N.F.), x, 1-60,
pls. i-xii, 60 text-figs.

Abstract in Geol. Centralbl., xvi, 714-
715; Jahresber. Anat. Entwickl. (N.F.),
xviii, pt. 3, 209. Review in Jour. Geol., xix,
661-664.

1911 E

Beiträge zur Kenntnis und Beur-
teilung der Parasuchier.

Geol. Pal. Abh. Jena (N.F.), x, 65-121,
pls. i-viii, 36 text-figs.

Abstracts in Rev. crit. Paléozool., xv, 208;
Geol. Centralbl., xvi, 714; Jahresber. Anat.
Entwickl. (N.F.), xviii, pt. 3, 209.

1911 F

Ueber die Procolophoniden mit einer
neuen Form aus dem Buntsandstein.

Centralbl. Min. Geol. Pal., 1911, 78-83,
5 figs.

Abstract in Jahresber. Anat. Entwickl.
(N.F.), xviii, pt. 3, 208.

1911 G

Skeletsystem. Paläontologisches.

Jahresber. Anat. Entwickl. (N.F.), xv,
pt. 3, 145, 161.

1912 A

Die Cotylosaurier der Trias.

Palaeontogr., lxx, 69-102, pls. iv-ix, 30
text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1912, ii, Ref., 444-445; Geol. Centralbl., xviii,
328-330.

1912 B

Der zweite Fund des Rhynchoce-
phalen *Brachyrhinodon* in Elgin.

Neues Jahrb. Min. Geol. Pal., 1912, i,
51-57, pls. iv, v, 4 text-figs.

Huene, Friedrich—Continued 1912 C
Review of R. S. Lull: The life of
the Connecticut Trias.

Neues Jahrb. Min. Geol. Pal., 1912, ii,
120.

An abstract of Lull's paper. Lull, R. S.,
1912 D. Amer. Jour. Sci., xxxiii, 1912,
397-422.

1912 D

Beiträge zur Kenntnis des Schädels
von *Eryops*.

Anat. Anz., xli, 98-104, 8 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1912, ii, Ref., 448; Jahresber. Anat. Entwickl.
(N.F.), xviii, pt. 3, 76.

1912 E

Der Unterkiefer von *Diplocaulus*.

Anat. Anz., xlii, 472-475, 3 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal.,
1913, ii, Ref., 350; Jahresber. Anat. Entwickl.
(N.F.), xviii, pt. 3, 77.

1912 F

Die Herkunft des Os interparietale
der Mammalia.

Anat. Anz., xliii, 522-524, 5 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal.,
1913, Ref., ii, 346; Jahresber. Anat. Entwickl.
(N.F.), xviii, pt. 3, 77.

1912 G

[Remarks made in course of review-
ing papers on vertebrate paleontology.]

Neues Jahrb. Min. Geol. Pal., 1912, i,
Ref., 134-143.

1913 A

A new phytosaur from the palisades
near New York.

Bull. Amer. Mus. Nat. Hist., xxxii, 275-
283, pls. xlx, l, 14 text-figs.

For abstracts see Neues Jahrb. Min. Geol.
Pal., 1914, i, 334; Sci. Progress, viii, 641;
Rev. crit. Paléozool., xviii, 5; xx, 49; Geol.
Zentralbl., xxi, 264; Nature, xcii, 514.

1913 B

The skull elements of the Permian
Tetrapoda in the American Museum of
Natural History, New York.

Bull. Amer. Mus. Nat. Hist., xxxii, 315-
336, 57 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1914, i, Ref., 150-151; Rev. crit. Paléozool.,
xviii, 5; xx, 50-54; xxi, 49; Geol. Zentralbl.,
xxi, 267; Geol. Mag. (5), x, 571.

1913 C

Über *Lysorophus* aus dem Perm von
Texas.

Anat. Anz., xliii, 389-396, 5 text-figs.

For review see Neues Jahrb. Min. Geol.
Pal., 1913, ii, Ref., 350-352.

- Huene, Friedrich—Continued 1913 D**
 Das Hinterhaupt von *Dimetrodon*.
 Anat. Anz., XLIII, 519-522, 4 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 68.
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- 1913 E**
 Ad notam.
 Centralbl. Min. Geol. Pal., 1913, 490.
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- 1913 F**
 Beobachtungen über die Bewegungsart der Extremitäten bei Krokodilen.
 Biol. Centralbl., XXXIII, 468-472, 7 figs.
-
- 1913 G**
 Stegocephalen.
 Handwörterbuch der Naturwissenschaften (Gustav Fischer, Jena), IX, 501-508, figs. 1-21.
 The bibliography comprises 15 titles.
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- 1914 A**
 The dinosaurs not a natural order.
 Amer. Jour. Sci. (4), XXXVIII, 145-146.
-
- 1914 B**
 Saurischia and Ornithischia.
 Geol. Mag. (6), I, 444-445.
 Abstract in Geol. Zentralbl., XXVI, 315.
-
- 1914 C**
 Über die Zweistämmigkeit der Dinosaurier, mit Beiträgen zur Kenntnis einiger Schädel.
 Neues Jahrb. Min. Geol. Pal., Beil.-Bd. XXXVII, 577-589, pls. vii-xii.
 Abstract in Geol. Zentralbl., XXII, 414.
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- 1914 D**
 Das natürliche System der Saurischia.
 Centralbl. Min. Geol. Pal., 1914, 154-158, 1 text-fig.
 Abstract in Geol. Zentralbl., XXII, 29.
-
- 1914 E**
 Neue Beschreibung von *Ctenosaurus* aus dem Göttinger Buntsandstein.
 Centralbl. Min. Geol. Pal., 1914, 496-499, 2 text-figs.
 Abstract in Geol. Zentralbl., XXII, 413.
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- 1914 F**
 Coelurosaurier-Reste aus dem unteren Muschelkalk.
 Centralbl. Min. Geol. Pal., 1914, 670-672, 2 text-figs.
-
- 1914 G**
 Beiträge zur Geschichte der Archosaurier.
 Geol. Pal. Abh. Jena (N.F.), XIII (XVII), 1-53, pls. i-vii, 61 text-figs.
 There is a bibliography of 45 titles.
 Abstracts in Neues Jahrb. Min. Geol., 1914, I, Ref., 503-507; Geol. Zentralbl., XXII, 414.
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- Huene, Friedrich—Continued 1914 H**
 Beiträge zur Kenntnis des Schädels einiger Pterosaurier.
 Geol. Pal. Abh. Jena (N.F.), XIII (XVII), 55-65, pls. i, ii, 10 text-figs.
 Reviewed in Neues Jahrb. Min. Geol. Pal., 1917, I, 109-110.
 Abstract in Geol. Zentralbl., XXII, 414.
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- 1914 I**
 Nachträge zu meinen früheren Beschreibungen triassischer Saurischia.
 Geol. Pal. Abh. Jena, (N.F.), XIII (XVII), 67-82, 56 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, 507; Geol. Zentralbl., XXII, 414.
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- 1914 J**
 Ueber Ichthyosaurier der Schwäbischen Trias.
 Jahresh. Ver. Naturk. Württemb., LXX, LXXXIX-XC.
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- 1914 K**
 Saurischia und Ornithischia triadica ("Dinosauria" triadica).
 Fossilium Catalogus. I: Animalia. Pt. IV, 1-21.
 A list of the genera and species, with references to the most important literature of the subject.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 468.
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- 1915 A**
 On reptiles of the New Mexican Trias in the Cope collection.
 Bull. Amer. Mus. Nat. Hist., XXXIV, 485-507, 64 text-figs.
 Abstract in Geol. Zentralbl., XXVIII, 446.
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- 1915 B**
 Beiträge zur Kenntnis einiger Saurischier der schwäbischen Trias.
 Neues Jahrb. Min. Geol. Pal., 1915, I, 1-27, pls. i-vii, text-figs. 1-17.
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- 1916 A**
 Beiträge zur Kenntnis der Ichthyosaurier im deutschen Muschelkalk.
 Palaeontogr., LXII, 1-68, pls. i-viii, 96 text-figs.
 Abstracts in Rev. crit. Paléozool., XXVIII, 20; Geol. Zentralbl., XXIV, 29-31.
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- 1918 A**
 Review of W. D. Matthew's "A marsupial from the Belly River Cretaceous" (Matthew, W. D., 1916 A).
 Neues Jahrb. Min. Geol. Pal., 1918, Ref., 207-210.

- Huene, Friedrich—Continued 1920 A**
 Stammesgeschichtliche Ergebnisse einiger Untersuchungen an Trias-Reptilien.
 Zeitschr. induct. Abstamm. Vererbl., xxiv, 159-163, pl. vu, 1 text-fig.
- 1920 B
 Neue Beobachtungen an *Simosaurus* und ihre Verwertung zur Stammesgeschichte der Sauropterygier.
 Zeitschr. induct. Abstamm. Vererbl., xxiii, 206-209.
- 1920 C
 Systematische und genetische Betrachtungen über die Stegocephalen.
 Zeitschr. induct. Abstamm. Vererbl., xxiii, 209-212.
- 1920 D
Sclerosaurus und seine Beziehungen zu anderen Cotylosauriern und zu den Schildkröten.
 Zeitschr. induct. Abstamm. Vererbl., xxiv, 163-166.
- 1920 E
 Ein Parasuchier aus dem oberen Muschelkalk von Bayreuth.
 Senckenbergiana, ii, 143-145, with figs.
- 1920 F
Gonioglyptus, ein alttriassischer Stegocephale aus Indien.
 Acta Zool., i, 433-464, pls 1-iii, 14 text-figs.
 There are 30 titles cited in the bibliography.
- 1920 G
 Osteologie von *Aetosaurus ferratus* O. Fraas.
 Acta Zool., i, 465-491, 51 text-figs.
 11 papers are cited in the bibliography.
- 1921 A
 Neue Beobachtungen an *Simosaurus*.
 Acta Zool., ii, 1921, 201-239, pls 1-iii, 14 text-figs.
- 1921 B
 Reptilian and stegocephalian remains from the Triassic of Pennsylvania in the Cope collection.
 Bull. Amer. Mus. Nat. Hist., xliiv, 561-574, 20 figs.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1923, ii, 427.
- 1921 C
 Coelurosaurier-Reste aus dem obersten Keuper von Halberstadt.
 Centralbl. Min. Geol. Pal., 1921, 315-320, 6 figs.
 Abstract in Geol. Zentralbl., xxvii, 509.
- Huene, Friedrich—Continued 1921 D**
 Neue Pseudosuchier und Coelurosaurier aus dem württembergischen Keuper.
 Acta Zool., ii, 329-403, 4 pls., 35 text-figs.
 20 papers are listed in the bibliography.
- 1922 A
 Ueber einen Sauropoden im obern Malm des Berner Jura.
 Eclogæ geol. Helvetiae, xvii, 80-94, pl 4.
 The bibliography includes 26 titles.
- 1922 B
 Die Ichthyosaurier des Lias und ihre Zusammenhänge.
 4to, Berlin, i-vi+1-114 pages, 25 pls.
 Pages 109-114 are occupied by the bibliography.
 Abstract in Geol. Zentralbl., xxx, 445-446.
 Review in Jour. Geol., xxxi, 687; Nature, cxii, 276.
- 1922 C
 Zur Osteologie des *Dicynodon*-Schädels.
 Palaeont. Zeitschr., v, 58-71, 4 figs.
 The volume is sometimes cited as of 1923.
 Abstract in Geol. Zentralbl., xxxii, 118.
- 1922 D
 Bemerkungen über das Becken von *Ichthyosaurus quadricissus*.
 Centralbl. Min. Geol. Pal., 1922, 277-282, 1 fig.
- 1922 E
 The Triassic reptilian order Thecodontia.
 Amer. Jour. Sci. (5), iv, 22-26.
 The bibliography presents 27 titles.
 Abstract in Geol. Zentralbl., xxxix, 253.
- 1922 F
 Kurzer Überblick über die triassische Reptilordnung Thecodontia.
 Centralbl. Min. Geol. Pal., 1922, 408-415, 1 table.
 The bibliography consists of 26 titles.
- 1922 G
 Beiträge zur Kenntnis der Organisation einiger Stegocephalen der schwäbischen Trias.
 Acta Zool., iii, 395-460, pls i, ii, 44 text-figs.
 The bibliography presents 42 titles.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1923, ii, 423-424.
- 1922 H
 Neue Untersuchungen zur Kenntnis der Parasuchier.
 Jahrb. geol. Landesanst., Berlin, xlii, 1921 (1922), 59-160, 153 figs.
 The literature cited comprises 60 titles.

- Huene, Friedrich—Continued 1922 I**
Parasuchier und ihre Verwandten.
 Jahresh. Ver. Naturk. Württemb., **LXVIII**,
 xiv-xvi.
- 1923 A
Carnivorous Saurischia in Europe
 since the Triassic.
 Bull. Geol. Soc. Amer., **XXXIV**, 449-458,
 3 figs.
- 1923 B
 Contribution to the vomer-parasphenoid question.
 Bull. Geol. Soc. Amer., **XXXIV**, 459-462,
 2 figs.
- 1923 C
 Lines of phyletic and biological development of the Ichthyopterygia.
 Bull. Geol. Soc. Amer., **XXXIV**, 463-468,
 2 figs.
- 1923 D
 Die Stammesentwicklung der Ichthyosaurier.
 Palaeont. Zeitschr., **v**, 265-271.
- 1925 A
 Ichthyosaurier-Reste aus Argentinien.
 Centralbl. Min. Geol. Pal., 1925, 90-95,
 6 figs.
- 1925 B
 Eine neue Rekonstruktion von *Compsoognathus*.
 Centralbl. Min. Geol. Pal., 1925, 157-160,
 1 fig.
 The bibliography presents 12 titles.
- 1925 C
 Triassischer Säugetierzahn aus Südwestafrika.
 Centralbl. Min. Geol. Pal., 1925, 174-181,
 3 figs.
- 1925 D
 Stammlinien der Reptilien.
 Centralbl. Min. Geol. Pal., 1925, 229-239,
 9 figs.
 The bibliography includes 19 titles.
- 1925 E
 Einige Beobachtungen an *Mizosaurus cornalianus* (Bassani).
 Centralbl. Min. Geol. Pal., 1925, 289-295,
 3 figs.
 There is a bibliography of 9 titles.
- 1925 F
 Ichthyosaurier aus der Kreide Argentiniens.
 Rev. Mus. La Plata, **XXVIII** (ser. 3, IV),
 234-238, figs. 1-5.
 In German, followed by a Spanish translation.
- Huene, Friedrich—Continued 1925 G**
 Die Bedeutung der *Sphenosuchus* Gruppe für den Ursprung der Krokodile.
 Zeitschr. induct. Abstamm. Vererbl.,
XXXVIII, 307-320, folding pls. IV, V, 1 text-fig.
 The bibliography contains 14 titles.
- 1925 H
Shastasaurus-Reste in der alpinen Trias.
 Centralbl. Min. Geol. Pal., 1925, 412-417.
- 1925 I
 Ein neuer Pelycosaurier aus der unteren Permformation Sachsens.
 Geol. Pal. Abh. Jena, **xviii** (N.F. XIV),
 215-264 (Heft 5, 3-52), pls. xxvi-xxxiii (1-viii),
 28 text-figs.
 In the bibliography are recorded 105 titles.
- 1926 A
 Zur Frage der phylogenetischen Bedeutung des Wirbelbaues der Tetrapoden.
 Palaeont. Zeitschr., **vii**, 260-267, 3 figs.
- 1926 B
 The carnivorous Saurischia in the Jura and Cretaceous formations principally in Europe.
 Rev. Mus. La Plata, **XXIX**, 35, 167, pls. 1, ii, 56 text-figs.
 Pages 114 to 167 are occupied by a Spanish version of the article. On pages 110 to 114 are presented 91 titles of papers pertaining to the subject.
 Review in Amer. Jour. Sci. (5), **xii**, 458.
- 1926 C
 Neue Ichthyosaurierfunde aus dem schwäbischen Lias.
 Neues Jahrb. Min. Geol. Pal., Beil.-Bd.,
 66-86, pls. m-v, 8 text-figs.
- 1926 D
 On several known and unknown reptiles of the order Saurischia from England and France.
 Ann. Mag. Nat. Hist. (9), **xvii**, 473-489,
 11 figs.
 There is a bibliography of 20 titles.
- 1926 E
 Notes on the age of the continental Triassic beds in North America, with remarks on some fossil vertebrates.
 Proc. U. S. Nat. Mus., **LXIX**, art. 18, 1-10,
 6 figs.
- 1926 F
 Zur Beurteilung von *Protorosaurus*.
 Centralbl. Min. Geol. Pal., 1926, Abt. B,
 469-475, 1 fig.

- Huene, Friedrich**—Continued 1926 G
Einige Schildkrötenreste aus der
obersten Trias Württembergs.
Centralbl. Min. Geol. Pal., 1926, Abt. B,
509-514.
- 1926 H
Volständige Osteologie eines Plateo-
sauriden aus dem Schwäbischen Keuper.
Geol. Pal. Abh. Jena, xv, 1-43, 7 pls,
2 text-figs.
- 1926 I
Gondwana-Reptilien in Südamerika.
Palaeont. Hungarica, II, 1-108, pls. i-xxii,
37 text-figs.
On page 87 is a bibliography of 28 titles;
on pages 91-92, 32 titles; on page 99, 17
titles.
- 1927 A
Beitrag zur Kenntnis mariner meso-
zoischer Wirbeltiere in Argentinien.
Centralbl. Min. Geol. Pal., 1926, Abt. B,
22-29, 3 figs.
- 1927 B
Sichtung der Grundlagen der jetzi-
gen Kenntnis der Sauropoden.
Eclogæ geol. Helvetiæ, xx, 444-470, folded
pls. xiv, xv.
- 1927 C
Short review of the present knowl-
edge of the Sauropoda.
Mem. Queensl. Mus., ix, 121-126.
- 1927 D
Ein kalifornischer Säbellowe.
Aus der Heimat, xl, 144-149, 5 figs
7 titles are included in the bibliography.
- 1927 E
Die Beziehungen zwischen den paläo-
zoischen und den mesozoischen Rep-
tilien.
Palaeont. Zeitschr., ix, 319-326.
The literature is cited in foot-notes.
- 1927 F
Lebensbild des Saurischier-Vorkom-
mens im obersten Keuper von Tros-
ingen in Württemberg.
Palaeobiol., i, 103-116, pl. x, 2 text-figs.
There is a bibliography of 16 titles.
- 1927 G
Contribución a la paleogeografía de
Sud América.
Bol. Acad. Cien. Córdoba, xxx, 231-294.
Contains (251-265) lists of the Upper Cre-
taceous reptiles of North America.
- Huene, Friedrich, and R. S. Lull** 1908 A
Neubeschreibung des Originals von
Nanosaurus agilis Marsh.
Neues Jahrb. Min. Geol. Pal., 1908, i,
134-144, pl. xii, 10 text-figs.
Abstracts in Geol. Zentralbl., xii, 151;
Nature, lxxxiii, 532.
- 1908 B
On the Triassic reptile, *Hallopus*
victor Marsh.
Amer. Jour. Sci. (4), xxv, 113-118.
Abstracts in Geol. Centralbl., xi, 473;
xii, 599; Nature, lxxviii, 156; Neues Jahrb.
Min. Geol. Pal. 1910, ii, Ref., 144; Sci.
Progress, iii, 461.
- Hulke, J. W.** 1873 A
Contribution to the anatomy of
Hypsilophodon foxii.
Quart. Jour. Geol. Soc., xxxix, 522-531,
pl. xviii.
- 1874 A
Supplemental note on the anatomy
of *Hypsilophodon foxii*.
Quart. Jour. Geol. Soc., xxx, 18-23, pl. iii.
- 1875 A
Appendix to "Note on a modified
form of dinosaurian ilium, hitherto
reputed scapula."
Quart. Jour. Geol. Soc., xxxii, 364-366,
4 figs.
- 1878 A
Note on two skulls from the Weal-
den and Purbeck formations indicating
a new subgroup of Crocodilia.
Quart. Jour. Geol. Soc., xxxiv, 377-381,
pl. xv.
- Hull, Edward** 1908 A
On the spread of existing animals
through Europe and to the islands of
the Atlantic; based on Dr. Scharff's
recent work "European animals."
Jour. Victoria Inst., xl, 145-150; 166-167,
a map.
- 1914 A
On recent investigations of the sub-
oceanic physical features of the North
Atlantic Ocean as confirming the view
of the distribution of European ani-
mals by land-connection with America
in late Tertiary times.
C. R. Congr. internat. Zool., ix, Monaco,
1913, 611-616.
- Humboldt, Alexander** 1838 A
Über den Manati des Orinoko.
Arch. Naturges., iv, i, 1-18.

- Hummel, K.** 1927 A
Die Schildkrötengattung *Trionyx* im Eozän von Messel bei Darmstadt und im aquitanischen Blätersandstein von Münzenberg in der Wetteau.
Abh. hess. geol. Landesanst., VIII, Heft 2, 1-96, pls. i-xi.
- Humphreys, John** 1908 A
The teeth of fossil fishes.
Proc. Roy. Soc. Med., 1, pt. 3, Odont. sec., 7-16, pl. i.
- Humphry, G. M.** 1870 B
A comparison of the shoulder bones and muscles with the pelvic bones and muscles.
Jour. Anat. Physiol. Lond., v, 67-88, pl. iii.
- 1876 A
On the comparison of the fore and hind limbs in vertebrates.
Jour. Anat. Physiol. Lond., x, 659-671.
- Huntsman, A. G.** 1919 A
Variation of fishes according to latitude.
Science (n.s.), 1, 522.
- Huot, André** 1902 A
Recherches sur le poissons lophobranches.
Ann. Sci. nat. (8), XIV, 197-238, pls. XXI-XXVI, 13 text-figs.
The bibliography presents titles of 57 works consulted.
- Husband, Rachel A.** 1924 A
Variability in *Bubo virginianus* from La Brea.
Condor, XXVI, 220-225, figs. 54-56.
- Huschke, Emil** 1822 A
Ueber Weber's "Gehörknöchelchen der Fische."
Isis von Oken, 1822, II, cols. 389-393.
- Hussakof, Louis** 1905 A
Notes on the Devonian "placoderm," *Dinichthys intermedius* Newb.
Bull. Amer. Mus. Nat. Hist., XXI, 27-36, pl. v, text-figs. 1, 2.
Abstracts in Geol. Centralbl., VIII, 380.
Rev. crit. Paléozool., x, 210.
- 1905 B
On the structure of two imperfectly known dinichthyids.
Bull. Amer. Mus. Nat. Hist., XXI, 409-414, pls. xv-xvi; 2 text-figs.
Abstracts in Geol. Centralbl., VIII, 379-380; Rev. crit. Paléozool., x, 210.
- Hussakof, Louis—Continued** 1906 A
Studies on the Arthrodira.
Mem. Amer. Mus. Nat. Hist., IX, 105-154, pls. XII, XIII, 25 text-figs.
Abstract in Rev. crit. Paléozool., XI, 19-21.
- 1908 A
Catalogue of types and figured specimens of fossil vertebrates in the American Museum of Natural History. Part I: Fishes.
Bull. Amer. Mus. Nat. Hist., XXV, 1-103, pls. i-vi, 49 text-figs. With a preface by Bashford Dean, pages 1-2.
Abstracts in Geol. Centralbl., xv, 310; Amer. Jour. Sci. (4), XXVII, 92; Jahresber. Anat. Entwickl. (N F), XIV, pt. 3, 158.
- 1908 B
A model of a restoration of *Dinichthys*.
Science (n.s.), XXVII, 255.
- 1908 C
Devonic fishes of the New York formations. By Charles R. Eastman. A review.
Science (n.s.), XXVIII, 311-313.
- 1909 A
A new goblin shark, *Scapanorhynchus jordani*, from Japan.
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- 1909 B
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- 1910 A
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Science (n.s.), XXXII, 925-926.
- 1910 B
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- Hussakof, Louis—Continued 1911 B**
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- 1912 A
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- 1912 B
 Notes on Devonian fishes from Scaumenac Bay, Quebec.
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- 1912 C
 An extinct giant-shark.
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- 1913 A
 Descriptions of four new Palaeozoic fishes from North America.
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- 1914 A
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- 1916 A
 The lungfish remains of the Coal Measures of Ohio, with special reference to the supposed amphibian *Eurythorax* of Cope.
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 Abstract in Geol. Zentralbl., xxvi, 253.
- 1916 B
 Discovery of the Great Lake trout, *Cristivomer namaycush*, in the Pleistocene of Wisconsin.
 Jour. Geol., xxiv, 685-689, 2 text-figs.
- 1916 C
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- Hussakof, Louis—Continued 1916 D**
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 Fish fauna of the conodont bed (Basal Genesee) at Eighteen-mile Creek, New York.
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- 1916 A
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- 1917 A
 Observations on the reconstructed skeleton of the dinosaurian reptile *Diplodocus carnegiei* as set up by Dr. W. J. Holland in the Natural History Museum in London, and an attempt to restore it by means of a model.
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Hutton, J. Arthur—Continued 1910 A
Salmon scale examination and its practical utility.

London, 8vo., pages 1-54, pls. i-xxiii.

Huxley, T. H. 1853 A

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Quart. Jour. Micr. Sci., i, 149-164, pl. iii.

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1855 A

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Proc. Roy. Instn. G. Brit., ii, 82-85.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 300-304.

1855 B

On the enamel and dentine of the teeth.

Quart. Jour. Micr. Sci., vol. iii, 127-130.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 357-360.

1856 A

On the method of palæontology.

Ann. Mag. Nat. Hist. (3), xviii, 43-54.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 432-444.

1856 B

On natural history as knowledge, discipline, and power.

Proc. Roy. Instn. G. Brit., ii, 187-195.

1858 D

On *Cephalaspis* and *Pteraspis*.

Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 502-521 (Same as Huxley, T. H., 1858 A).

1858 E

On a new species of *Plesiosaurus* from Street, near Glastonburg, with remarks on the structure of the atlas and axis vertebræ and of the cranium in that genus.

Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 522-537 (Same as Huxley, T. H., 1858 B).

1859 D

On the theory of the vertebrate skull.

Proc. Roy. Soc. Lond., ix, 331-457, 10 figs.

Also in Ann. Nat. Hist., iii, 1859, 414-439; Foster and Lankester's "Scient. Memoirs of Huxley," i, 1898, 538-606.

Huxley, T. H.—Continued 1859 E

On the *Staganolepis robertsoni* (Agassiz) of the Elgin sandstones; and on the recently discovered foot-marks in the sandstones of Cumming-stone.

Quart. Jour. Geol. Soc., xv, 410-460, pl. xiv.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 94-119, pl. vi.

1859 F

On a new species of *Dicynodon* (*D. murrayi*) from near Colesberg, South Africa; and on the structure of the skull in the dicynodonts.

Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 131-140, pls. ix, x (Same as Huxley, T. H., 1859 C).

1859 G

On the dermal armour of *Crocodylus hastingsæ*.

Quart. Jour. Geol. Soc., xv, 678-680, pl. xxv.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 166-169, pl. xi.

1859 H

Observations on the development of some parts of the skeleton of fishes.

Quart. Jour. Micr. Sci., vii, 33-46, pl. iii.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 271-285, pl. xxviii.

1859 I

On the dermal armour of *Jacare* and *Caiman*, with notes on the specific and generic characters of recent Crocodilia.

Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 286-312 (Same as Huxley, T. H., 1859 B).

1861 D

Preliminary essay upon the systematic arrangement of the fishes of the Devonian epoch.

Foster and Lankester's "Scient. Memoirs of Huxley," ii, 1899, 421-460, 21 text-figs. (Same as Huxley, T. H., 1861 B).

For abstract see The Geologist, London, v, 1862, 276-280.

1861 E

On *Pteraspis dunensis* (*Archæotekthis dunensis* Roemer).

Foster and Lankester's "Scient. Memoirs of Huxley," ii, 417-420, 2 text-figs. (Same as Huxley, T. H., 1861 A).

Huxley, T. H.—Continued 1862 A
The anniversary address to the Geological Society.

Quart. Jour. Geol. Soc., XVIII, xl-liv.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," II, 1899, 512-529.

1863 B
Description of a new specimen of *Glyptodon* recently acquired by the Royal College of Surgeons.

Proc. Roy. Soc. Lond., XII, 316-326.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," II, 546-555.

1863 C
Description of *Anthracosaurus russelli*, a new labyrinthodont from the Lanarkshire coal field.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," II, 1899, 558-572, 2 figs. (Same as Huxley, T. H., 1863 A).

1863 D
On the skeleton of a glyptodon.
Med. Times and Gazette, 1863, I, 205-207; 223-234; 4 figs.

1863 E
On the structure and classification of the Vertebrata.

Med. Times and Gazette, 1863, I, 417-419, 443-444, 471-472, 527-530, 553-556, 607-610, 633-635.

1863 F
Lectures on the vertebrate skull.
Med. Times and Gazette, 1863, II, 1-6, 57-58, 107-110, 189-192, 371-374, 425-429, 475-478, 529-531, 579-580, 607-609, 633-636, 663-668, 63 text-figs.

1864 B
On the osteology of the genus *Glyptodon*.

Proc. Roy. Soc. Lond., XII, 108.

1864 C
On the cetacean fossils termed "*Ziphius*" by Cuvier, with a notice of a new species *Belemnosiphium compressus* from the Red Crag.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 1-10, pl. i (Same as Huxley, T. H., 1864 A).

1864 D
On the structure and classification of the Mammalia.

Med. Times and Gazette, 1864, I, pp. 153-154, 177-178, 203-204, 229, 256-257, 284-285, 312-313, 343-344, 369-370, 398-399, 428-429, 456-457, 486-487, 509-510, 537-538, 564-565, 595-596, 617-618, 647-648, 671-672; II, pp. 40-41, 93-94, 123-124, 145-147.

Abstracts of a course of lectures.

Huxley, T. H.—Continued 1865 B
On the osteology of *Glyptodon*.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 37-84, pls. v-x (Same as Huxley, T. H., 1865 A).

1865 C
On a collection of vertebrate fossils from the Panchet rocks near Ranigung, Bengal.

Palaeont. Ind. (4), I, 1-24, pls. i-vi.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 90-120, pls. xii-xvi.

1866 B
Illustrations of the structure of the crossopterygian ganoids.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," suppl. vol., 1903, 20-67, pls. i-x.

(Same as Huxley, T. H., 1866 A.)

1867 C
On the classification of birds; and on the taxonomic value of the modifications of certain of the cranial bones observable in that class.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 239-292, 36 text-figs. (Same as Huxley, T. H., 1867 A).

1867 D
On a new specimen of *Telerpeton elginense*.

Quart. Jour. Geol. Soc., XXIII, 77-84, 5 figs.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 205-213, 5 figs.

1868 B
Letter on the classification of birds.
The Ibis (2), IV, 357-362.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 292-297.

1868 C
On the classification of the Alectormorphæ and Heteromorphæ.

Proc. Zool. Soc. Lond., 1868, 294-319, 16 text-figs.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," III, 1901, 346-373, 16 text-figs.

1868 D
On the animals which are most nearly intermediate between birds and reptiles.

"Scient. Memoirs of Huxley," (Foster and Lankester), III, 1901, 303-313 (Same as Huxley, T. H., 1868 A).

Huxley, T. H.—Continued 1868 E
Remarks on *Archæopteryx lithographica*.

Proc. Roy. Soc. Lond., xvi, 243-248.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 340-345.

1869 B

Abstract in Jour. Anat. Physiol. Lond., iv, 309.

1869 E

On *Hypsilophodon*, a new genus of Dinosauria.

Geol. Mag., vi, 573.

1869 F

Further evidence of the affinity between the dinosaurian reptiles and birds.

Geol. Mag., vi, 573-574.

1869 G

On the representatives of the malles and the incus of the Mammalia in the other Vertebrata.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 436-453, 8 text-figs. (Same as Huxley, T. H., 1869 B).

1869 H

On *Hyperodapedon*.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 374-390, with 1 text-fig. (Same as Huxley, T. H., 1869 C).

1869 I

On the upper jaw of *Megalosaurus*.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 394-396, pl. xxvii (Same as Huxley, T. H., 1869 D).

1869 J

Further evidence of the affinity between the dinosaurian reptiles and birds.

Nature, i, 91.

Abstract of Huxley, T. H., 1870 C.

1869 K

On the Dinosauria of the Trias, with observations on the classification of the Dinosauria.

Nature, i, 146.

1870 E

On *Hypsilophodon foxii*, a new dinosaurian from the Wealden of the Isle of Wight.

Quart. Jour. Geol. Soc., xxvi, 3-12, pls. i, ii.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 454-464, pl. xxviii.

Huxley, T. H.—Continued 1870 F
The anniversary address of the president.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 510-550 (Same as Huxley, T. H., 1870 B).

1870 G

Further evidences of the affinity between the dinosaurian reptiles and birds.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 465-486, 5 text-figs. (Same as Huxley, T. H., 1870 C).

1870 H

On the classification of the Dinosauria, with observations on the Dinosauria of the Trias.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 487-509, pl. xxix (Same as Huxley, T. H., 1870 D).

1870 I

Triassic Dinosauria.

Nature, i, 23-24.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 599-600.

1871 A

Description of vertebrate remains from the Jarrow colliery.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iii, 1901, 182-197, pls. xvii-xxiii (Same as Huxley, T. H., 1867 B).

1874 B

On the structure of the skull and of the heart of *Menobranchius lateralis*.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 1-22, pls. i-iv (Same as Huxley, T. H., 1874 A).

1875 D

Note on the development of the columella auris in the Amphibia.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 23-25 (Same as Huxley, T. H., 1875 A).

1875 E

On *Staganolepis robertsoni* and on the evolution of the Crocodilia.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 66-83, pl. v (Same as Huxley, T. H., 1875 B).

1876 D

On the classification of the animal kingdom.

Jour. Linn. Soc. Zool., xii, 190-226.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 35-60.

Huxley, T. H.—Continued 1876 E

On *Ceratodus forsteri*, with observations on the classification of fishes.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 84-124, 11 figs. (Same as Huxley, T. H., 1876 A).

1876 F

On the evidence as to the origin of existing vertebrate animals.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 163-187 (Same as Huxley, T. H., 1876 B).

1877 A

The crocodilian remains found in the Elgin sandstones, with remarks on the ichnites of Cummingstone.

Mem. Geol. Surv. U. K., III, 1-58, pls i-xvi.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 200-241, pls. viii-xxiv.

1879 A

On the characters of the pelvis in the Mammalia, and the conclusions respecting the origin of mammals which may be based on them.

Proc. Roy. Soc. Lond., xxviii, 395-405, pl. viii.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 345-356, pl. xxv. Abstract in Nature, xx, 22-24.

1880 B

For title see Hay, O. P., 1902 A, p. 120.

Translation into German in Kosmos (Krause), 1881, Jahrg., v, 15-28.

1880 C

The coming of age of the Origin of Species.

Nature, xxii, 1-4.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 395-403.

1880 D

On the cranial and dental characters of the Canidae.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 404-456, with 16 figs. (Same as Huxley, T. H., 1880 A).

1880 E

On the application of the laws of evolution to the arrangement of the Vertebrata and more particularly of the Mammalia.

Scient. Memoirs of Huxley (Foster and Lankester), iv, 1902, 457-472 (Same as Huxley, T. H., 1880 B).

Huxley, T. H.—Continued 1880 F

On the epipubis in the dog and fox.

Proc. Roy. Soc. Lond., xxx, 162-163.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 393-394.

1881 A

The rise and progress of palaeontology.

Nature, xxiv, 452-455.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 508-519.

1883 B

On the oviducts of *Osmerus*, with remarks on the relations of the teleostean with the ganoid fishes.

Scient. Memoirs of Huxley (Foster and Lankester), iv, 1902, 563-571, 2 figs. (Same as Huxley, T. H., 1883 A).

1887 B

Further observations upon *Hyperodapedon gordonii*.

Republished in Foster and Lankester's, Scient. Memoirs of Huxley, iv, 1902, 636-657, with pls. xxvii, xxviii (Same as Huxley, T. H., 1887 A).

1887 C

Preliminary note on the fossil remains of a chelonian reptile, *Ceratochelys sthenurus*, from Lord Howe's Island, Australia.

Proc. Roy. Soc. Lond., xlii, 232-238, 6 figs.

Republished in Foster and Lankester's "Scient. Memoirs of Huxley," iv, 1902, 606-611, 6 figs.

See Wright, E. P., and T. H. Huxley

Hyde, J. E. 1926 A

Collecting fossil fishes from the Cleveland shale.

Nat. Hist., xxvi, 497-504, 7 figs.

Hyrtil, Carl Joseph 1849 A

Ueber einige interessante Abweichung der unteren Wirbelbogen der Fische.

Sitz.-Ber. Akad. Wiss. Wien, II, 79-85.

1862 A

Ueber Wirbelsynostosen und Wirbelsuturen bei Fischen.

Denk. Akad. Wiss. Wien, xx, 95-110, pls. i-iii.

Inde, — 1912 A

Ueber angebliche Zahnanlagen bei Vögeln.

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- Ihering, H.** 1878 A
Ueber Wirbelverdoppelung bei Fischen.
Zool. Anz., I, 72-74.
- 1880 A
Über die Wirbelsäule von *Pipa*.
Jena. Zeitschr. wiss. Zool., VI, 297-344, 2 figs.
- 1891 C
Bemerkungen über die zoologisch-systematische Bedeutung der Fisch-Otolithen.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1891, 23-26.
- 1909 A
Die Entstehungsgeschichte der Fauna der neotropischen Region.
Verh. zool.-bot. Ges. Wien, LVIII, 282-302.
- 1910 A
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Notes on the gill-rakers of the spoonbill sturgeon, *Polyodon spathula*.
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On the oral and pharyngeal denticles of elasmobranch fishes.
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Mastodon or mammoth?
Scient. Amer., Oct., 1926, 289-290; 292, 8 figs.
- Ingebrigtsen, Olaf** 1924 A
Das norwegische Rotwild (*Cervus elaphus* L.), Eine kranimetrische Untersuchung.
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Der Zwischenkiefer, seine Entstehung und der Verlauf der Hasenschartenkieferspalt und der schrägen Gesichtsspalt.
Anat. Hefte, Arb., XLV, 473-610, 38 text-figs.
- Ishiwara, Yoshio** 1921 A
On some fossil shark-teeth from the Neogene of Japan.
Sci. Rep. Tohoku Imp. Univ. (2), Geol., v, No. 3, 61-74, 3 pls.
- Iwanzoff, N.** 1894 A
Zur Anatomie der Knöchelchen des mittleren Ohres bei Amphibien und Reptilien.
Anat. Anz., IX, 578-584.
- Jackson, C. T.** 1844 A
Final report on the geology and mineralogy of New Hampshire.
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- 1851 C
Discovery of fossil fish in the Coal formation of New Brunswick.
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No species are described.
- 1854 A
An analysis of the body and scales of a species of *Palaeoniscus* from the Albert coal-mine, Hillsborough, New Brunswick.
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- 1854 B
On the composition of the scales of the gar-pike.
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- 1836 A
Pneumaticité des oiseaux.
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Über eine neue Species von Ichthyosauren (*Ichthyosaurus longirostris* Owen and Jäger). Nebst Bemerkungen über die übrigen in der Lias Würtembergs aufgefunden Reptilien.
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Einige Bemerkungen über die Organisation des indischen Crocodils (*Gavialis gangeticus*).
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Über *Chalcodus permianus*.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 156-158.
- Jaekel, O.**—Continued 1892 C
Silurian fish remains.
Bull. Geol. Soc. Amer., III, 168-170.
Discussion of remains of *Dactyrorhabdus priscus*, *Astrapis desiderata* and *Eriptychus americanus*.
- 1894 C
Ueber die Beziehungen der Paläontologie zur Zoologie.
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- 1894 D
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- 1895 C
Review of Traquair: Notes on Devonian fishes of Campbelltown and Scaumenac Bay in Canada (Traquair, R. H., 1893 C.).
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- 1895 D
Review of Charles D. Walcott's "Preliminary notes on the discovery of 'a vertebrate fauna in Silurian (Ordovician) strata'" [Walcott, C. D., 1892 A.].
Neues Jahrb. Min. Geol. Pal., 1895, I, Ref., 162-163.
- 1895 E
Unter-Tertiäre Selachier aus Südrussland.
Mém. Com. Géol. St. Pétersb., 9, No. 4, 19-35, pls. i, ii.
- 1896 C
Die Organisation von *Arohegosaurus*.
Zetschr. deutsch. Geol. Ges., XLVIII, 505-521, 10 figs.
- 1898 D
Review of papers by E. Fraas on *Hybodus*. (Fraas, E., 1895 A and 1896 A.)
Neues Jahrb. Min. Geol. Pal., 1898, I, Ref., 151-152.
- 1899 C
Ueber die primäre Zusammensetzung des Kieferbogens und Schultergürtels.
Verh. deutsch. Zool. Ges., IX, 249-258, 2 text-figs.

Jaekel, O.—Continued

1901 A

Ueber jurassische Zähne und Eier von Chimäriden.

Neues Jahrb. Min. Geol. Pal., Beil.-Bd., xiv, 540-564, pls. xxi-xxiv, 3 text-figs.

Abstracts in Geol. Centralbl., iii, 375; Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 134.

1901 B

Ueber die allgemeine Form des Wirbeltierkörpers.

Naturw. Wochenschr., xvii (N.F.), i, 52-54.

1902 A

Ueber *Coccosteus* und die Beurtheilung der Placodermen.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1902, 103-115, one plate.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 321-322; Geol. Centralbl., iii, 121; Rev. crit. Paléozool., viii, 23; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 91.

1902 B

Ueber *Placochelys* n. g. und ihre Bedeutung für die Stammesgeschichte der Schildkröten.

Neues Jahrb. Min. Geol. Pal., 1902, i, 127-144, pl. ii, one text-fig.

Abstract in Prometheus, xiv, 1903, 525; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 94.

1902 C

Die Zusammensetzung des Schultergürtels.

Verh. internat. Zool.-Kongr., Berlin, v, 1901, 610-612, 1 text-fig.

1902 D

Ueber einen neuen paläozoischen Tetrapodentypus: *Gephyrostegus bohemicus* n. g. n. sp.

Zeitschr. deutsch. Geol. Ges., liv, Verh., 127-132, 2 figs.

1902 E

Ueber verschiedene Wege phylogenetischer Entwicklung.

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1903 A

Ueber *Ceraterpeton*, *Diceratosaurus* und *Diplocaulus*.

Neues Jahrb. Min. Geol. Pal., 1903, i, 109-124, pls. ii-v and 6 text-figs.

Abstracts in Rev. crit. Paléozool., viii, 20-21; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 153-154.

Jaekel, O.—Continued

1903 B

Über Placodermen aus dem Devon.

Zeitschr. deutsch. Geol. Ges., lv, Monatsb., 12-13.

Abstract in Geol. Centralbl., v, 173.

1903 C

Bemerkungen über die Bartenwale und die Zahnwale.

Zeitschr. deutsch. Geol. Ges., lv, Monatsb., 40.

1903 D

Die Organisation und systematische Stellung der Asterolepiden.

Zeitschr. deutsch. Geol. Ges., lv, Monatsb., 41-60, 8 text-figs.

Abstracts in Geol. Centralbl., v, 533; Rev. crit. Paléozool., xii, 128.

1903 E

Tremataspis und Pattens Ableitung der Wirbeltiere von Arthropoden.

Zeitschr. deutsch. Geol. Ges., lv, Verh., 84-93, 5 text-figs.

Abstract in Geol. Centralbl., v, 532; also in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 160.

1903 F

Über die Epiphyse und Hypophyse.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1903, 27-58, 11 text-figs.

Abstracts in Geol. Centralbl., v, 236; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 147.

1903 G

Über *Ramphodus* nov. gen., einen neuen devonischen Holocephalen von Wildungen.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1903, 383-393, 3 text-figs.

1904 A

Eine neue Darstellung von *Ichthyosaurus*.

Zeitschr. deutsch. Geol. Ges., lvi, Monatsb., 26-34, 1 text-fig.

Abstracts in Geol. Centralbl., vii, 122; Rev. crit. Paléozool., xii, 128.

1904 B

Über die Bildung der ersten Halswirbel und die Wirbelbildung im allgemeinen.

Zeitschr. deutsch. Geol. Ges., lvi, Monatsb., 109-119, 7 text-figs.

Abstract in Rev. crit. Paléozool., xii, 129.

1904 C

Ueber den Schädelbau der Dicynodonten.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1904, 172-188, 3 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 164.

Jaekel, O.—Continued

1905 A

Über die Bedeutung der Wirbelstacheln der Naosauriden.

Zetschr. deutsch. Geol. Ges., LVII, Monatsb., 192-194, 2 text-figs.

Abstract in Geol. Centralbl., VIII, 635; Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 165-166.

1905 B

Über den Schädelbau der Nothosauriden.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1905, 60-84, 8 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XI, pt. 3, 161.

1905 C

Über die primäre Gliederung des Unterkiefers.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1905, 134-147, 14 text-figs.

1906 A

Über die Mundbildung der Wirbeltiere.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1906, 7-32, 20 text-figs.

1906 B

Neue Wirbeltierfunde aus dem Devon von Wildungen.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1906, 73-85, 10 text-figs.

Abstract in Sci. Progress, II, 524.

1906 C

Neue Rekonstruktionen von *Pleuranthus sessilis* und von *Polyacrodus (Hybodus) hauffianus*.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1906, 155-159.

Abstract in Geol. Centralbl., XI, 175.

1906 D

Einige Beiträge zur Morphologie der ältesten Wirbeltiere.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1906, 180-189, 7 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 150-151; Geol. Centralbl., XI, 231; Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 158.

1907 A

Über *Pholidosteus* nov. gen., die Mundbildung und die Körperform der Placodermen.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1907, 170-186, 6 text-figs.

Comments on in Sci. Progress, II, 524.

Abstracts in Rev. crit. Paléozoool., XIV, 230; Sci. Progress, II, 524.

Jaekel, O.—Continued

1907 B

Placochelys placodonta aus der Obertrias des Bakony.

Separatabdruck aus dem Werke "Resultate der wissenschaftl. Erforsch. des Balatonsees, I Bd., I Th., Pal. Anhang." Pages 1-90, pls. i-x, 49 text-figs.

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Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, II, Ref., 329-333; Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 166.

1908 A

Ueber die Entstehung des Jochbogens der Schildkröten.

Anat. Anz., Ergänzungsh., XXXII, 140.

1908 B

Zu Gustav Steinmann's geologischen Grundlagen der Abstammungslehre.

Centralbl. Min. Geol. Pal., 1908, 461-471.

1908 C

Neue Funde von Wirbeltieren aus Deutschlands Urzeit.

Aus der Natur, IV, 424-429, 2 figs.

Abstract in Nature, LXXXI, 196.

1909 A

Über die Klassen der Tetrapoden.

Zool. Anz., XXXIV, 193-212, 15 text-figs.

1909 B

Ueber die ältesten Gliedmassen von Tetrapoden.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1909, 587-615, 20 text-figs.

This number was probably not issued until 1910.

Abstracts in Geol. Centralbl., XIX, 526-527; Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 295-296; Rev. crit. Paléozoool., XIV, 228.

1909 C

Entgegnung an Herrn G. Steinmann.

Centralbl. Min. Geol. Pal., 1909, 706-709.

1909 D

Ueber Beurteilung der paarigen Extremitäten.

Sitz.-Ber. Akad. Wiss. Berlin, 1909, Halbbd. I, 707-724, 16 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XV, pt. 3, 140.

1910 A

Über die Fussstellung und Lebensweise der grossen Dinosaurier.

Zetschr. deutsch. Geol. Ges., LXII, Monatsb., 270-277, 3 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 146-148; Geol. Centralbl., XVI, 219; Jahresber. Anat. Entwickl. (N.F.), XVI, pt. 3, 125.

Jaekel, O.—Continued

1910 B

Naosaurus credneri im Rotliegenden von Sachsen.

Zeitschr. deutsch. Geol. Ges., LXXII, Monatsab., 520-535, 1 plate, 4 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, II, Ref., 132-133; Geol. Centralbl., XVI, 217-220.

1910 C

Über das System der Reptilien.

Zool. Anz., XXXV, 324-341, 5 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 290-292; Sci. Progress, V, 676-677; Rev. crit. Paléontool., XIV, 288; Jahresber. Anat. Entwickl. (N.F.), XV, pt. 3, 158.

1910 D

Über die *Paratheria*, eine neue Klasse von Wirbeltieren.

Zool. Anz., XXXVI, 113-124, 5 text-figs.

Abstract in Sci. Progress, V, 664-665.

1910 E

Ueber einen neuen Belodonten aus dem Buntsandstein von Bernburg.

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 197-229, 20 text-figs.

Abstracts in Sci. Progress, V, 683; Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 141-145; Geol. Centralbl., XVI, 316-317.

1911 A

Die Wirbeltiere. Eine Übersicht über die fossilen und lebenden Formen. 8vo., i-viii+1-252 pages, 281 text-figs.

Berlin: Borntraeger Brothers.

Abstract in Neues Jahrb. Min. Geol. Pal., 1912, I, Ref., 161, with table; Amer. Jour. Sci. (4), XXXIII, 592; Geol. Centralbl., XVII, 475; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 202-205; Nature, LXXXIX, 124.

1912 A

Die ersten Halswirbel.

Anat. Anz., XI, 609-622, 8 text-figs.

1913 A

Ueber den Bau des Schädels.

Anat. Anz., Ergänzungsh., XLIV, 77-94, 8 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XIX, pt. 3, 70-72.

1913 B

Ueber Probleme der Gebissentwicklung.

Anat. Anz., Ergänzungsh., XLIV, 194-195.

1913 C

Wege und Ziele der Paläontologie.

Palaeont. Zeitschr., I, 1-57.

Jaekel, O.—Continued

1914 A

Über die Wirbeltierfunde in der oberen Trias von Halberstadt.

Palaeont. Zeitschr., I, 155-215, pls. IV, V, 34 text-figs.

Pages 155-160 appeared in 1913.

1915 A

Die Wirbeltierfunde aus dem Keuper von Halberstadt. Testudinata.

Palaeont. Zeitschr., II, 88-112, pl. I, 12 text-figs.

Abstracts in Geol. Zentralbl., XXIII, 382; XXIV, 26.

1915 B

Die Flügelbildung der Flugsaurier und Vögel.

Anat. Anz., XLVIII, 1-19, 6 text-figs.

The bibliography presents 20 titles.

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1916 A

Die Wirbeltierfunde aus dem Keuper von Halberstadt.

Palaeont. Zeitschr., II, 113-214, pls. II-VII, text-figs 13-50.

A continuation of Jaekel, O., 1915 A.

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1918 A

Über Skelettbildungen.

Palaeont. Zeitschr., II, 228-232.

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1919 A

Die Mundbildung der Placodermen.

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1921 A

Die Stellung der Paläontologie zu einigen Problemen der Biologie und Phylogenie.

Palaeont. Zeitschr., III, 213-239, 11 figs.

1922 A

Discussion on *Trachodon*.

Palaeont. Zeitschr., IV, 91.

1922 B

Discussion on Ichthyosauria.

Palaeont. Zeitschr., IV, 119.

1923 A

Neues über Hemispondylia.

Palaeont. Zeitschr., V, 1-25, 1 pl., 8 figs.

1925 A

Über die von Professor Stromer im Cenoman Aegyptens entdeckten Reste von *Symlophos*.

Palaeont. Zeitschr., VII, 165.

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Über die Organisation und Lebensweise der Asterolepiden.
Palaeont. Zeitschr., vii, 166-169; 170.
- 1925 C
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Palaeont. Zeitschr., vii, 181-182.
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Neue Forschungen über das Primordial-Cranium und Gehirn paläozoischer Fische.
Palaeont. Zeitschr., viii, 161-184, 5 figs.
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Beiträge zu einer Theorie des knöchernen Schädels der Wirbeltiere.
Palaeont. Zeitschr., viii, 43.
- 1926 C
Über Epiphysen an den Hinterhauptskondylen.
Palaeont. Zeitschr., viii, 60-61.
- 1926 D
Über die Phylogenie der Störe.
Palaeont. Zeitschr., viii, 70-71.
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- 1926 E
Discussion on epiphyses of *Ursus*.
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- 1926 F
Zur Kenntnis der Mesosaurier (Discussion).
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- 1928 A
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Amphibien der Trias.
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- James, Joseph F.** 1891 B
Prehistoric man and the horse in North America.
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- 1895 A
Remarks on *Daimonelix*, or "devil's corkscrew," and allied fossils.
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- Janensch, William** 1904 A
Über den Skeletbau der Glyptodontiden.
Zeitschr. deutsch. Geol. Ges., LVII, Protok., 67-91, 8 text-figs.
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- 1906 A
Über *Archæophis proavus* Mass., eine Schlange aus dem Eocän des Monte Boale.
Beitr. Pal. Geol. Oesterr.-Ung., XIX, 1906, 133, pls. i, ii.
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- 1906 B
Pterosphenus scheinfurthi Andrews und die Entwicklung der Palaeophiden.
Arch. Biontol., i, 307-350, pls. xxvi-xxvii, 3 text-figs.
There is a bibliography of 29 titles.
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- 1914 A
Bericht über den Verlauf der Tendaguru Expedition.
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- 1914 B
Uebersicht über die Wirbelthierfauna der Tendaguru-Schichte, nebst einer kurzen Charakterisierung der neu aufgestellten Arten von Sauropoden.
Arch. Biontol., iii, 81-110, figs. 1-12.
- 1920 A
Ueber *Elaphosaurus bambergi* und die Megalosaurier aus den Tendaguru Schichten Deutsch-Ostafrikas.
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- 1922 A
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- 1898 A
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- 1898 B
Contribution à l'anatomie comparée des systèmes squelettique et musculaire de *Chimæra collei*, *Callorhynchus antarcticus*, *Spinax niger*, *Protopterus annectens*, *Ceratodus forsteri* et *Axolotl*.
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1902 C

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1904 G

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1905 B

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1905 D

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1906 A

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1906 B

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Ottawa Naturalist, xix, 232-234

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1906 C

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1906 D

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1906 E

Report of vertebrate palæontologist.

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1907 A

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1907 C

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1908 A

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Contrib. Canad. Pal., iii (4to), pt. iv, 1-65, pls. 1-viii, 13 text-figs

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1908 B

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Summ. Rep. Geol. Surv. Canada for 1907, 110-112.

1909 A

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Amer. Jour. Sci. (4), xxviii, 165-174, 8 figs.

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1909 B

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Summ. Rep. Geol. Surv. Canada for 1908, 176-178.

1910 A

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Ottawa Naturalist, xxiv, 149-151, pl. iii.

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1910 B

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 11-16, 1 plate, 1 text-fig.
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 On the fore-limb of a carnivorous dinosaur from the Belly River formation of Alberta, and a new genus of *Ceratopsia* from the same horizon, with remarks on the integument of some Cretaceous herbivorous dinosaurs.
 Ottawa Naturalist, xxvii, 129-135, pls. xiii-xvii.
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 xviii, 154.
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 On *Gryposaurus notabilis*, a new genus and species of trachodont dinosaur from the Belly River formation of Alberta, with a description of the skull of *Chasmosaurus belli*.
 Ottawa Naturalist, xxvii, 145-155, pls. xviii-xx.
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1915 A

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1915 B

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1916 A

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1916 B

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1916 C

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Rep. Prov. Mus. Nat. Hist. Victoria for 1915 (1916), 21.

1917 A

On *Cheneosaurus tolmanensis*, a new genus and species of trachodont dinosaur from the Edmonton Cretaceous of Alberta.

Ottawa Naturalist, xxx, 117-123, pls. vi, vii.

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1917 B

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1917 C

A new genus and species of crestless hadrosaur from the Edmonton formation of Alberta.

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1917 D

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Rep. Prov. Mus. Nat. Hist. Victoria, for 1916 (1917), 42, pl. ix.

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1918 A

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1918 B

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1918 C

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Ottawa Naturalist, xxxii, 135-139.

1920 A

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1920 B

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1916 A

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1916 B

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- Ledouble, A. F.** 1901 A
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- 1903 A
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- 1906 A
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In reference to the skeleton of the mastodon found near Newburgh.
Rep. State Cabinet, N. Y. xxi, 108, footnote.

- Lee, John Edward** 1860 A
Structure of the scales of *Lepidotus* and *Lepidosteus*.
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- Lee, Willis T.** 1901 A
The Morrison formation of south-eastern Colorado.
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- 1902 A
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- 1903 A
Age of the Atlantosaurus beds.
Science (N.S.), XVII, 292-293.
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- 1907 A
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Science (N.S.), XXV, 32.
- 1907 B
Afton craters of southern New Mexico.
Bull. Geol. Soc. Amer., XVIII, 211-220, pls. iii, iv.
Horse, mammoth, mastodon and tapir found near El Paso and horse 30 miles northwest in New Mexico.
- 1913 A
Recent discovery of dinosaurs in the Tertiary.
Amer. Jour. Sci. (4), XXXV, 531-534.
Abstract in Geol. Centralbl., XX, 705.
- 1915 A
Reasons for regarding the Morrison an introductory Cretaceous formation.
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- 1917 A
Geology and paleontology of the Raton Mesa and other regions in Colorado and New Mexico.
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Pages 17 to 37 are occupied by the bibliography of the subject.
- 1924 A
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- , **R. W. Stone**: **H. S. Gale** 1915 A
Guidebook of the western United States. Part B: The Overland route with a side trip to Yellowstone Park.
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- Leenhardt, L. E. E.** 1906 A
À propos des édentés fossiles de France.
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- 1909 A
À propos des édentés fossiles de France.
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- Lees, J. H.** 1907 A
The skull of *Paleorhinus*, a Wyoming Phytosaur.
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Neues Jahrb. Min. Geol. Pal., 1908, II, Ref. 440; Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 169; Sci. Progress, II, 515.
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[Remarks on extinction of diluvial mammals in South America.]
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- Lehrs, P.** 1911 A
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- Leidy, Joseph** 1851 C
Descriptions of *Testudo lata* and *Emys hemispherica*.
Proc. Acad. Nat. Sci. Phila., V, 173.
- 1853 H
[Lower jaw of fossil tiger.]
Proc. Amer. Philos. Soc., V, 261.
The speaker exhibited a jaw of fossil which he proposed to call *Felis atroz*. Description insufficient.
- 1856 S
See Hay, O. P., 1902 A, 136.
Abstract in Canad. Natural. Geol., I, 239.
- 1859 J
[Results of examination of fossil vertebrates found near Charleston, communicated in letter to Prof. F. S. Holmes.]
Proc. Acad. Nat. Sci. Phila., XI, 1859, 180-185.
- 1866 D
Remarks on human relics at Petite Anse.
Proc. Acad. Nat. Sci. Phila., XVIII, 459.
- 1868 K
Notice of some vertebrate remains from the West Indian islands.
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Describes *Crocodylus pristinus*, *Testudo cubensis*, and *Megalonyx (Megalocnus) rodens*, from Cuba, and *Emys sombreroensis*, from Sombrero, W. I.

- Leidy, Joseph**—Continued 1870 C
Abstract of remarks made on *Elasmosaurus*.
Nature, II, 248.
- 1873 B
See Hay, O. P., 1902 A, 141.
Notice, with list of species, in Jour. Zool. Paris, III, 1874, 55-59.
- 1880 B
[Notes on Pleistocene mammals in California.]
Mem. Mus. Comp. Zool., VI, 256-258.
These notes form a part of J. D. Whitney's work on the "Auriferous Gravels of the Sierra Nevada."
- 1885 C
[Letter from Dr. Neal, Archer, Fla.]
Amer. Naturalist, XIX, 834.
- 1886 D
Toxodon and other remains from Nicaragua, Central America.
Proc. Acad. Nat. Sci. Phila., 1886, 275-277.
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- 1921 A
Note on *Megalonyx*, written to G. F. Becker.
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- Leigh-Sharp, W. Harold** 1921 A
The comparative morphology of the secondary sexual characters of elasmobranch fishes.
II: The claspers, clasper siphons, and clasper glands.
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Jour. Morphol., XXXIX, 565-577, 15 figs.
- 1926 A
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The Pleistocene succession near Alton, Illinois, and the age of the mammalian fauna.
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The development of the wing of *Sterna wilsonii*.
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There is a bibliography of 20 titles.
- Lelièvre, Aug.** See **Betterer** and **Lelièvre**.
- Lemoine, V.** 1884 C
Note sur l'encéphale du gavial du Mont-Aimé étudié sur trois moulages naturels.
Bull. Soc. géol. France (3), XII, 158-162, pl. IV.
- 1885 C
Étude sur quelques mammifères de petite taille de la faune cernaysienne des environs de Reims.
Bull. Soc. géol. France (3), XIII, 203-217, pls. I-XII.
- 1886 A
Réponse à M. Dollo.
Bull. Soc. géol. France (3), XIV, 167-168.
- 1889 A
Considérations générales sur les vertébrés fossiles des environs de Reims et spécialement sur les mammifères de la faune cernaysienne.
C. R. Congr.-internat. Zool., I, 1889, Paris, 239-279, 8 text-figs.
- Leonard, A. G.** 1912 A
Description of the Bismark quadrangle.
Folio U. S. Geol. Surv., CXXXI, 1-8, 2 maps.
- Lepkowski, W.** 1897 A
Über die Gefäßverteilung in den Zähnen von Säugetieren.
Anat. Hefte, Arb., VIII, 559-590, pls. XXXVI-LVIII.
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- Leriche, M.** 1900 A
Faune ichthyologique des Sables à unios et térédines des environs d'Épernay (Marne).
Ann. Soc. géol. Nord, XXIX, 173-200, 5 text-figs.
- 1901 A
Sur quelques éléments nouveaux pour la faune ichthyologique du Montien inférieur du bassin de Paris.
Ann. Soc. géol. Nord, XXX, 153-161, pl. V.
- 1901 B
Contribution à l'étude des siluridés fossiles.
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Leriche, M.—Continued

1902 A

Les poissons paléocènes de la Belgique.

Mém. Mus. hist. nat. Belgique, II, 1-48, pls. i-iii, 8 text-figs.

Abstract in Rev. crit. Paléozool., VII, 84-85.

1902 B

Révision de la faune ichthyologique des terrains crétacés du nord de la France.

Ann. Soc. géol. Nord., XXXI, 87-155, pls. ii-iv, 4 text-figs.

Reviewed in Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 482-483; Rev. crit. Paléozool., VII, 83.

Abstract in Geol. Centralbl., III, 445, 1903

1903 A

Le *Pteraspis* de Liévin (Pas-de-Calais) (*Pteraspis couchi*, Lankester).

Ann. Soc. géol. Nord., XXXII, 161-175, pls. v, vi, 2 text-figs

1905 A

Les poissons éocènes de la Belgique.

Mém. Mus. hist. nat. Belgique, III, 49-228, pls. iv-xii, text-figs. 9-64.

1905 B

Note sur les *Cottus* fossiles, et en particulier sur *Cottus cervicornis* Storms du Rupélien de la Belgique.

C. R. Assoc. franc. Avanc. Sci., XXXIII (Grenoble), Notes et Mém., 677-679, pl. III.

1906 A

Note préliminaire sur les poissons des faluns néogènes de la Bretagne, de l'Anjou et de la Touraine.

Ann. Soc. géol. Nord., XXXV, 290-321.

1906 B

Contribution à l'étude des poissons du nord de la France et des régions voisines.

Ann. Soc. géol. Nord., XXXV, 308-356, 2 text-figs.

1906 C

Contribution à l'étude des poissons fossiles du nord de la France et des régions voisines.

Mém. Soc. géol. Nord (Lille), V, 1-430, pls. i-xvii, 79 text-figs.

Abstracts in Ann. Soc. géol. Nord., XXXV, 338-356; Rev. crit. Paléozool., XI, 82-86; Geol. Centralbl., IX, 487-491.

1907 A

Sur la faune ichthyologique de l'Aquitainien marin des environs de Montpellier.

C. R. Assoc. franc. Avanc. Sci., XXXV, Lyons, 1906, 352-356, pl. III.

Leriche, M.—Continued

1907 B

Révision de la faune ichthyologique des terrains néogènes du bassin du Rhone.

C. R. Assoc. franc. Avanc. Sci., XXXV, 1906, Lyon, Mém., 335-352.

1908 A

Note sur des poissons paléocènes et éocènes des environs de Reims (Marne).

Ann. Soc. géol. Nord., XXXVII, 229-265, pls. III-VI.

Abstracts in Geol. Centralbl., XIII, 298; Rev. crit. Paléozool., XIII, 157; Sci. Progress, IV, 674.

1908 B

Première note sur les poissons carbonifères du nord de la France.

Ann. Soc. géol. Nord., XXXVII, 266-281, pls. VII, VIII.

Abstracts in Geol. Centralbl., XIII, 299; Rev. crit. Paléozool., XIII, 158.

1908 C

Observations sur les squales néogènes de la Californie.

Ann. Soc. géol. Nord., XXXVII, 302-306.

Abstracts in Geol. Centralbl., XIII, 299; Rev. crit. Paléozool., XIII, 156; Sci. Progress, IV, 674.

1909 A

Note préliminaire sur des poissons nouveaux de l'Oligocène belge.

Bull. Soc. belge Géol., Proc.-verb., XXXI, 378-384.

1910 A

Sur quelques poissons du Crétacé du bassin de Paris.

Bull. Soc. géol. France (4), X, 455-471, pl. VI, 1 text-fig.

1910 B

Note sur les poissons stampiens du bassin de Paris.

Ann. Soc. géol. Nord., XXXIX, 324-336, pl. III.

Abstracts in Rev. crit. Paléozool., XV, 156; Geol. Centralbl., XVI, 412.

1910 C

Sur le plus ancien reste connu de l'ordre des pinnipèdes.

Ann. Soc. géol. Nord., XXXIX, 369-370. Abstract in Geol. Centralbl., XVI, 410.

Describes *Palaeotaria henrietta* from the Tongrian.

- Leriche, M.**—Continued 1910 D
 Les poissons oligocènes de la Belgique.
 Mém. Mus. hist. nat. Belgique, v, 231-363, pls. xiii-xxvi, text-figs. 65-156.
 On pages 241-243 is a list of 127 works relating to the subject.
 Abstract in Rev. crit. Paléozoöl., xv, 158-160.
- 1911 A
 Un pycnodontoïde aberrant du Sénonien du Hainaut.—Le genre *Acrotemnus* L. Agassiz.—*Acrotemnus splendens* de Koninck.
 Bull. Soc. belge Géol., Proc.-verb., xxv, 162-168, pl. A, 7 text-figs.
- 1912 A
 Sur la signification des *Pteraspis* du Gedinnien de l'Ardenne et du Condroz.
 Bull. Soc. belge Géol., xxvi, Proc.-verb., 39-40.
- 1912 B
 Sur la présence d'un *Pteraspis* dans le Coblentzien du massif de Dour.—Les niveaux à Ostracophores de l'Ardenne et des régions limitrophes.
 Bull. Soc. belge Géol., xxvi, Proc.-verb., 49-56, pl. E.
- 1913 A
 Les poissons paléocènes de Landana (Congo). Les gisements de poissons paléocènes et éocènes de la côte occidentale d'Afrique.
 Ann. Mus. Congo belge Géol. (3), i, 69-91, pls. viii-x, 6 text-figs.
- 1914 A
 Les "*Pteraspis*" du Dévonien de la Belgique.
 Bull. Soc. belge Géol., xxxiii, Proc.-verb., 143-159, pls. iii, iv, 7 text-figs.
 Abstract in Rev. Géol. et Sci. conn., vi, 84.
- Lesbre, F. X.** 1903 A
 Recherches anatomiques sur les camélidés.
 Arch. Mus. hist. nat. Lyon, viii, 1-196, 116 text-figs.
- 1907 A
 Contribution à l'anatomie du porc-épic commun (*Hystrix cristata*).
 Arch. Mus. hist. nat. Lyon, ix, Mém. iii, 1-54, 39 text-figs.
- Leuchart, Fred S.** 1835 A
 Ueber einen neuen eigenthümlichen Knochen des Meerschweinchens (*Cavia aperea*, Erxleb.), nebst Bemerkungen über den Zwerchfellknochen des Igels und des Dromedärs.
 Tiedemann and Treviranus' Untersuchungen, etc., v, 167-174, pl. viii.
 The volume examined is entitled "erster Band Heidelberg," 1825. The article preceding the one quoted has the date Nov. 1833.
- Leunis (Johannes), and (Hubert) Ludwig** 1883 A
 Leunis Synopsis der Thierkunde.
 3d edit., 8vo., i, i-xvi+796, 641 figs.
- Leverett, F.** 1889 A
 Raised beaches of Lake Michigan.
 Trans. Wisconsin Acad. Sci., vii, 177-192.
- 1891 A
 Pleistocene fluvial plains in western Pennsylvania.
 Amer. Jour. Sci. (3), xlii, 200-212, 1 fig.
- 1897 A
 Pleistocene features and deposits of the Chicago area.
 Bull. Chicago Acad. Sci., ii. (Geol. Nat. Hist. Survey), 7-87, maps and figures.
- 1899 A
 The Illinois Glacial lobe.
 Mon. U. S. Geol. Surv., xxxviii, 1839, i-xxi; 1-817, 24 plates, mostly maps, 9 text-figs.
- 1902 A
 Glacial formations and drainage features of the Erie and Ohio basins.
 Mon. U. S. Geol. Surv., xli, 1902, 1-302, xxvi pls.
- See also **Russell and Leverett**.
- Lewis, Frederic T.** 1906 A
 The fifth and sixth aortic arches and the related pharyngeal pouches in the rabbit and pig.
 Anat. Anz., xxviii, 506, 513, 2 text-figs.
- 1907 A
 Scientific exhibits at the seventh International Zoological Congress.
 Amer. Naturalist, xli, 657-671.
- Lewis, Henry Carvill** 1881 A
 The antiquity and origin of the Trenton gravel.
 In C. C. Abbott's "*Primitive Industry*," 1881, 521-551, figs. 426-429.
- 1883 A
 The great ice age in Pennsylvania.
 Jour. Franklin Inst., cxv, 287-307, map.

- Lewis, Henry Carvill—Cont'd** 1883 B
The geology of Philadelphia.
Jour. Franklin Inst., cxv, 359-374, 422-427.
- Leydig, Franz** 1850 A
Ueber die Schleimkanäle der Knochenfische.
Arch. Anat. Physiol. Med., 1850, 170-181, pl. iv.
- 1851 A
Zur Anatomie und Histologie der *Chimara monstrosa*.
Arch. Anat. Physiol. Med., 1851, 241-271, pl. x.
- 1852 A
Beiträge zur mikroskopischen Anatomie und Entwicklungsgeschichte der Rochen und Haie.
8vo., Leipzig, 1852, i-iv+1-127 pages, pls. 1-iv.
- 1859 A
Ueber die äusseren Bedeckungen der Säugethiere.
Arch. Anat. Physiol., Med., 1859, 677-747, pls. xix, xx.
- 1873 A
Ueber die äusseren Bedeckungen der Reptilien und Amphibien.
Arch. mikr. Anat. Bonn., ix, 752-794, pl. xxxii.
- 1873 B
Die Zähne einheimischer Schlangen nach Bau und Entwicklung.
Arch. mikr. Anat. Bonn., ix, 1-35, pl. i.
- 1887 A
Das Parietalorgan der Wirbelthiere.
Zool. Anz., x, 534-539.
- 1890 A
Das Parietalorgan der Amphibien und Reptilien.
Abh. Senckenb. naturf. Ges., xvi, 442-451, pls. 1-vii.
- L'Herminier, Ferdinand** 1836 A
Recherches sur la marche de l'ossification dans le sternum des oiseaux.
Ann. Sci. nat. (2), vi, 107-115.
Also in C. R. Acad. Sci. Paris, iii, 1836, 12-20.
- Lichtenstein, R.** 1840 A
Ueber *Missourium*.
Foriep's Notizen, xiii, 104-106.
- Lillenthal, Gustav** 1917 A
Der Einfluss der Flügelform auf die Flugart der Vögel.
Sitz.-Ber. Ges. naturf. Freunde Berlin 1917, 261-280, 20 figs.
- Lillie, D. G.** 1910 A
Observations on the anatomy and general biology of some members of the larger Cetacea.
Proc. Zool. Soc. Lond., 1910, ii, 769-792, pl. lxxiv, text-figs. 69-78.
- Lilljeborg, Wilh.** 1860 A
Bidrag till Kännedom om tandömsningen hos *Otaria* och *Halichoerus*.
Arssk. Vetensk.-Soc., Upsala, i, 297-302.
- 1866 A
Systematisk öfversigt af de gnagande däggdjuren, Gläres.
Upsala, 4to., 1-59 pages.
- Limber, John** 1841 A
Fossil remains in Lenoir County, N. C.
Amer. Jour. Sci. (1), xi, 405.
There is nothing to indicate what species were found or to what age the beds belonged. Reference to the paper is made in vol. iii of the N. C. Geol. and Econom. Surv., 1912, 50.
- Lindemuth, A. C.** 1878 A
Report on the geology of Darke County [Ohio].
Geol. Surv. Ohio, iii, pt. i, Geol., 496-518.
- Linder, Hermann** 1913 A
Beiträge zur Kenntniss der Plesiosaurier-Gattungen *Peloneustes* und *Pliosaurus*; nebst Anhang: Ueber die beiden ersten Halswirbel der Plesiosaurier.
Geol. Pal. Abh. Jena (n.s.), xi, 339-402, pls. i-iv, 40 text-figs.
There is a list of 41 works which were consulted.
- Lindgren, Waldemar** 1898 A
The mining districts of the Idaho basin and the Boise Ridge.
Rep. U. S. Geol. Surv., xviii, pt. 3, 617-719, with maps and figures.
- 1900 A
The gold and silver veins of Silver City, DeLamar and other mining districts in Idaho.
Rep. U. S. Geol. Surv., xx, pt. 3, 65-256, pls. vii-xxxv, text-figs. 4-35.
- 1901 A
The gold belt of the Blue Mountains of Oregon.
Rep. U. S. Geol. Surv., xxii, pt. 2, 551-776, pls. lxxiii-lxxviii, text-figs. 70-88.

- Lindgren, Waldemar**—Cont'd 1911 A
The Tertiary gravels of the Sierra Nevada of California.
U. S. Geol. Surv. Profess. Paper LXXIII, 1-226, pls. i-xviii, 16 text-figs.
- , and N. F. Drake 1904 A
Description of the Nampa [Idaho] quadrangle.
Folio U. S. Geol. Surv., ciii, 1-5, 2 maps, 4 text-figs.
- 1904 B
Description of the Silver City quadrangle.
Folio U. S. Geol. Surv., civ, 1-6, 3 maps.
- Lindsay, Beatrice** 1885 A
On the avian sternum.
Proc. Zool. Soc. Lond., 684-716, pls. xlii-xlv, 6 text-figs.
- Lindström, G.** 1895 A
Abstract in Geol. Mag. (4), ii, 170.
- Linnæus, Carolus** 1758 A
Systema Naturæ.
Holmæ, 1758, 8vo., Ed. 10, i, 1-824.
The systematic arrangement of the Vertebrata occupies pages 1-388.
- Linstow, O.** 1908 A
Die Verbreitung des Bibers im Quartär.
Abh. Ber. Mus. Natur. Heimatk., Magdeburg, i, 213-342, 2 pls.
The bibliography presents 671 titles. Abstract in Geol. Centralbl., xii, 441.
- Lippincott, W. A.** 1920 A
The pelvic wing in poultry.
Amer. Naturalist, lvi, 535-539, 7 figs.
The bibliography comprises 5 titles.
- Lloyd, E. Russell, and C. J. Hares** 1915 A
The Cannonball marine member of the Lance formation of North and South Dakota and its bearing on the Lance-Laramie problem.
Jour. Geol., xxxiii, 523-547, 1 text-fig.
- Lloyd, J. H., and Edith M. Sheppard** 1922 A
A contribution to the anatomy of a hammerhead shark (*Zygæna malleus* Shaw).
Proc. Zool. Soc. Lond., 1922, 971-981, 7 figs.
The bibliography presents 15 titles.
- Lloyd, John Uri** 1904 A
When did the American mammoth and mastodon become extinct?
Records of the Past, iii, 43-46.
- Lobley, J. Logan** 1908 A
The American fauna and its origin.
Jour. Victoria Inst., xi, 190-221.
- Lockington, William N.** 1884 A
Natural history of mammals, Cetacea, Cynoidea, *Æluroides*, Pinnipedia.
Stand. Nat. Hist., v, 178-209, figs. 96-111; 408-479, figs. 190-223.
- Lockwood, S.** 1882 A
Mastodons in New Jersey.
Amer. Jour. Sci. (3), xxiv, 294.
- 1883 B
A mastodon in an old beaver-meadow.
Pop. Sci. Month., xxii, 341-345.
- 1884 A
Natural history of mammals. Carnivora.
Stand. Nat. Hist., v, 353-408, figs. 172-189.
- Locy, William A.** 1894 A
The derivation of the pineal eye.
Anat. Anz., ix, 169-180, 5 figs.
- Loder, Edmund G.** 1914 A
Antlers of red deer.
Proc. Zool. Soc. Lond., 1914, pt. 2, 488-489.
- Löhle, B.** 1913 A
Die Bildung des Gaumens bei *Cavia cobaya*.
Morphol. Jahrb., xlvi, 595-654, 30 text-figs., pls. xv-xvi.
- Lönnberg, Einar** 1901 A
Pisces (Fische).
Bonn's Klass. Ordn., vi, Abth. 1, 1-48.
This part of Lönnberg's work deals with the history of ichthyology and is continued in "Lönnberg, E., 1902 A."
- 1902 A
Pisces (Fische).
Bonn's Klass. Ordn., vi, Abth. 1, 49-99.
On pages 63-82 is a list of 229 titles of historical and faunal ichthyological works. On pages 83-99 the author discusses the origin of the Vertebrata.
- 1903 A
On the variation of the elk (*Alces alces*).
Proc. Zool. Soc. Lond., 1902, ii, 352-360, 9 text-figs.
- 1905 A
On some fossil remains of a condor from Bolivia.
Bull. Geol. Inst. Upsala, vi, 1-11, 4 text-figs.
- 1907 A
Notes on Steller's sea-cow.
Fauna Flora Upsala, ii, 1-13, 1 fig.
The title and text are in Swedish.

- Lönnberg, Einar—Continued 1907 B**
 A page from the history of the phylogeny of the elephants.
Fauna Flora Upsala, II, 53-69; 110-119; 10 text-figs.
 Also in *Vet.-Akad. Arsbok. Stockh.* 1907, 173-197. In both cases the text is in Swedish.
- 1909 A
 A study of the variation of European beavers.
Arkiv Zool., v, No. 6, 1-16, 5 text-figs.
- 1909 B
 Taxonomic notes about palearectic reindeer.
Arkiv Zool., vi, No. 4, 1-18, 5 text-figs.
- 1910 A
 The object and use of tails in the case of vertebrate animals.
Fauna Flora Upsala, v, 9-25, 49-71, 118-128, 17 text-figs.
 The title and the text are in Swedish.
- 1910 B
 Om hvalarnes härstamning (On the origin of whales).
Vet.-Akad. Arsbok. Stockh., 1910, 219-259, 8 text-figs.
 Abstract in *Nature*, LXXXIV, 270-271.
- 1911 A
 On the origin of the whales.
Fauna Flora Upsala, vi, 20-46; 57-82, with illustrations.
 The text is in Swedish.
- 1911 B
 Der Penisknöchel zweier seltener Carnivoren.
Anat. Anz., XXXVIII, 230-232, 2 text-figs.
 The two animals mentioned are *Lutax lutris* and *Bassariscus sumichrasti*.
- 1911 C
 Remarks on the dentition of *Delphinapterus leucas*.
Arkiv Zool., VII, art. 2, 1-18, 7 figs.
 Abstract in *Nature*, LXXXIV, 270.
- 1911 D
 The pelvic bones of some Cetacea.
Arkiv Zool., VII, art. 10, 1-15, 12 figs.
- 1913 A
 Notes on guanacos.
Arkiv Zool., VIII, No. 19, 1-8, 2 text-figs.
- 1916 A
 A remarkable occurrence of the first hind toe in the common fox (*Vulpes vulpes*).
Arkiv Zool., x, No. 21, 1-5, 2 figs.

- Lönnberg, Einar—Continued 1922 A**
 On some anomalies in the dentition of *Phoca hispida*.
Bijdr. Dierk. Amsterdam, XXII (Feestnum. Max Weber), 169-178, 6 text-figs.
- 1923 A
 Remarks on some palearectic bears.
Proc. Zool. Soc. Lond., 1923, 85-95, pls. i, ii.
- 1924 A
 Cetological notes.
Arkiv Zool., xv, No. 24, 1-17, 6 figs.
- 1926 A
 Notes on some cats from eastern Asia, with description of a new genus.
Arkiv Zool., XVIII, No. 2, 1-22, pl. i, 5 text-figs.
- Loewe, Stephan 1914 A**
 Über das Vorkommen von Zahnerkrankungen und speziell von Karies bei fossilen Tieren.
Deutsche Monatsschr. Zahnheilk., XXXII, 787-794, pl. XII.
- Lohest, M. 1888 A**
 Recherches sur les poissons des terrains paléozoïques de Belgique.
Ann. Soc. géol. Belgique, xv, Mém., 112-203, pls. 1-xi.
 Abstract in *Geol. Mag.* (3), VII, 40-42.
- 1888 B
 Découverte du plus ancien amphibien connu et de quelques fossiles remarquables dans le Famennien supérieur de Mohave.
Ann. Soc. géol. Belgique, xv, cxx-cxxvii, 1 fig.
- Longman, Heber A. 1915 A**
 On a giant turtle from the Queensland Lower Cretaceous.
Mem. Queensl. Mus., III, 24-29, pl. XII, 2 text-figs.
- 1924 A
 The zoogeography of marsupials.
Mem. Queensl. Mus., VIII, pt. 1, 1-15.
 There is appended a bibliography of 58 titles.
- Longmuir, — 1860 A**
 On the restoration of *Pterichthys* in "The Testimony of the Rocks."
Proc. Brit. Assoc. Adv. Sci., XXIX, 1859, Aberdeen, Append., 263.
- Loomis, F. B. 1900 A**
 Abstract in *Geol. Centralbl.*, I, 120-122, 1901.

Loomis, F. B.—Continued 1901 A

On Jurassic stratigraphy in south-eastern Wyoming.

Bull. Amer. Mus. Nat. Hist., xiv, 189-197, pls. xxvi, xxvii.

1904 A

Two new river reptiles from the Titanotherium beds.

Amer. Jour. Sci. (4), xviii, 427-432, 11 text-figs.

Abstract in Geol. Centralbl., vi, 716.

1904 B

On some marine fossils in the Titanotherium beds.

Science (n.s.), xix, 254.

1905 A

Hyopsodidae of the Wasatch and Wind River basins.

Amer. Jour. Sci. (4), xix, 416-424, 8 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, ii, Ref., 133-134; Geol. Centralbl., vii, 616-617.

1905 B

Momentum in variation.

Amer. Naturalist, xxxix, 839-843, 2 text-figs.

1905 C

The Amherst College expedition to the Wasatch and Wind River basins in 1904.

Science (n.s.), xxi, 296.

1906 A

Wasatch and Wind River Primates.

Amer. Jour. Sci. (4), xxi, 277-285, 8 text-figs.

Abstract in Geol. Centralbl., xi, 106.

1906 B

A fossil bird from the Wasatch.

Amer. Jour. Sci. (4), xxii, 481-482, 3 text-figs.

1907 A

Wasatch and Wind River rodents.

Amer. Jour. Sci. (4), xxiii, 123-130, 7 text-figs.

Abstracts in Geol. Centralbl., xi, 382; Sci. Progress, ii, 508.

1907 B

Origin of the Wasatch deposits.

Amer. Jour. Sci. (4), xxiii, 356-364, 3 text-figs.

Abstracts in Nature, lxxvii, 117; Sci. Progress, ii, 502.

Loomis, F. B.—Continued 1908 A

Rhinocerotidae of the Lower Miocene.

Amer. Jour. Sci. (4), xxvi, 51-64, 15 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, ii, Ref., 431-435; Geol. Centralbl., xii, 595; Naturw. Rundschau, xxxiii, 1908, 643; Nature, lxxx, 283.

1908 B

A new horse from the Lower Miocene.

Amer. Jour. Sci. (4), xxvi, 163-165, 1 text-fig.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1908, ii, Ref., 429-430; Geol. Centralbl., xii, 596.

1909 A

Turtles from the Upper Harrison beds.

Amer. Jour. Sci. (4), xxviii, 17-26, 9 text-figs.

Abstracts in Geol. Centralbl., xv, 219; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 293.

1909 B

Camels of the Lower Miocene.

Science (n.s.), xxxix, 196.

1910 A

A new genus of peccaries.

Amer. Jour. Sci. (4), xxx, 381-384, fig. 1. Describes *Pediohyus ferus* from the Upper Harrison beds, Nebraska.

Abstracts in Geol. Centralbl., xvi, 215; Sci. Progress, v, 671.

1910 B

Osteology and affinities of the genus *Stenomylus*.

Amer. Jour. Sci. (4), xxxix, 297-323, 30 text-figs.

Abstracts in Geol. Centralbl., xv, 311; Sci. Progress, v, 670; Nature, lxxxiv, 89.

1910 C

Ontogeny: a study of the value of young features in determining phylogeny.

Pop. Sci. Month., lxxvii, 292-294.

1911 A

A new mink from the shell heaps of Maine.

Amer. Jour. Sci. (4), xxxi, 227-229, figs. 1, 2.

Describes *Luteiola vison antiquus*.

1911 B

The camels of the Harrison beds, with three new species.

Amer. Jour. Sci. (4), xxxi, 65-70, 3 text-figs.

Abstracts in Geol. Centralbl., xvi, 215; Sci. Progress, vi, 560.

- Loomis, F. B.—Continued 1911 C**
 The adaptations of the Primates.
 Amer. Naturalist, xlv, 479-492, 6 text-figs.
 1915 A
 A new mosasaur from the Ft. Pierre.
 Amer. Jour. Sci. (4), xxxix, 555-566, 9 text-figs.
 Abstract in Geol. Zentralbl., xxv, 468.
 1917 A
 South Carolina mastodon (abstract).
 Bull. Geol. Soc. Amer., xxviii, 210.
 1918 A
 An unusual mastodon.
 Amer. Jour. Sci. (4), xlv, 438-444, 4 text-figs.
 Brief abstracts in Bull. Geol. Soc. Amer., xxviii, 210-211; Geol. Zentralbl., xxv, 270.
 1919 A
 An amphibian from the Eocene.
 Amer. Jour. Sci. (4), xlvii, 217-219, 1 fig.
 Abstract in Geol. Zentralbl., xxv, 43.
 1920 A
 On *Ticholeptus rusticus* and the genera of Oreodontidae.
 Amer. Jour. Sci. (4), l, 281-292, 4 figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388; Geol. Zentralbl., xxvii, 28.
 1921 A
 Origin of South American faunas.
 Bull. Geol. Soc. Amer., xxxii, 187-196.
 1922 A
 Derivation of South American faunas.
 Pan-Amer. Geol., xxxvii, 61-63.
 1923 A
 Oreodonts of the Lower Harrison beds.
 Amer. Jour. Sci. (5), vi, 222-228, 5 figs.
 Abstract in Geol. Zentralbl., xxx, 539.
 1924 A
 The oreodonts of the Lower Oligocene.
 Ann. Carnegie Mus., xv, 369-378, pls. li-liv, 3 text-figs.
 1924 B
 Miocene oreodonts in the American Museum.
 Bull. Amer. Mus. Nat. Hist., li, art. 1 1-37, 26 figs.
 1924 C
 Artifacts associated with the remains of a Columbian elephant at Melbourne, Florida.
 Amer. Jour. Sci. (5), viii, 503-508, 2 figs.
 Abstract in Geol. Zentralbl., xxxii, 507.
- Loomis, F. B.—Continued 1925 A**
Leptauchenia and *Cyclopidius*.
 Amer. Jour. Sci. (5), ix, 241-249, 4 figs.
 1925 B
 Origin and development of the artiodactyl dentition (abstract).
 Bull. Geol. Soc. Amer., xxxvi, 226.
 1925 D
 The Florida man.
 Science (n.s.), lxii, 436.
 1925 E
 Dentition of artiodactyls.
 Bull. Geol. Soc. Amer., xxxvi, 583-604, 20 figs.
 1926 A
 The evolution of the horse.
 Boston, Marshall Jones Company, 1-xvi+1-233 pages, 25 pls., 41 text-figs.
 Reviewed in Amer. Jour. Sci. (5), xiv, 167-169.
 1926 B
 Early man in Florida.
 Nat. Hist., xxvi, 260-262, 2 figs.
 1927 A
 A giant tortoise from Florida.
 Amer. Jour. Sci. (5), xiii, 435-439, 2 figs.
 —, and D. B. Young 1912 A
 On the shell heaps of Maine.
 Amer. Jour. Sci. (4), xxxiv, 17-42, 16 text-figs.
 — See Gidley and Loomis, 1926 A.
- Loomis, Leverett Mills 1923 A**
 On the classification of the albatrosses, petrels, and diving petrels.
 Auk, xl, 596-602
- Loper, S. Ward 1893 A**
 A new fossil fish (*Ischypterus newberryi*).
 Pop. Sci. News, xxvii, 75, 1 fig.
 1899 A
 Fossiliferous black shales.
 Pop. Sci., xxxiii, 97-98, 3 figs.
 Figures 2 fossil fishes from the Triassic of Connecticut.
- Lorenz, Ludovic E. F. 1807 A**
 Observationes anatomicæ de pelvi reptilium. Speciminis loco inauguralis.
 Halæ Saxonum, 8vo., 1-60 pages, 1 plate.
- Lorenz, Ludwig 1904 A**
 Das Becken der Stellerschen Seekuh.
 Abh. geol. Reichsanst. Wien, xix, pt. 3, 1-11, pl. 1, 2 text-figs.
 Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 124-125.
- 1904 B
 Ueber das Becken der Sirenen.
 Verh. zool.-bot. Ges. Wien, l, 142-143.

- Lorenz, Ludwig**—Continued 1908 A
Die in historischer Zeit ausgestorbenen Vögel.
Verh. zool.-bot. Ges. Wien, LVIII, 217-232.
Gives a list of all the birds known to have become extinct within historical times.
- Lortet, L.** 1887 A
Note sur le *Rhizoprion bariensis* Jourdan.
Arch. Mus. hist. nat. Lyon (1), iv, 315-319, pls. xxv^{bis} et xxv^{ter}.
- Lotichius, A.** 1911 A
Der Säbeltiger.
Ber. Senckenb. naturf. Ges., XLII, 268-279, 2 pls.
Abstract in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 501.
- Louderback, George Davis** 1907 A
Where mammoths roved. Recent remarkable discoveries in Carson, Nevada.
Sunset Mag., XIX, 205-216, 8 illustrations
- 1924 A
Period of scarp production in the Great Basin.
Bull. Dept. Geol. Univ. Calif., xv, 1-44, 2 pls., 3 text-figs.
- Low, James W.** 1926 A
The pelvic girdle in the batrachian *Menopoma alleghaniense* Harlan.
Proc. Zool. Soc. Lond., 1926, 913-926, 4 figs.
There is a bibliography of 15 titles.
- Lubosch, Wilhelm** 1906 A
Ueber das Kiefergelenk der Monotremen.
Jena Zeitschr. Naturwiss., XLI (N.F. XXXIV), 549-606, pls. xxvi-xxix, 5 text-figs.
The bibliography presents 37 titles.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 61-64.
- 1906 B
Über Variationen am Tuberculum articulare des Kiefergelenks des Menschen und ihre morphologische Bedeutung.
Morphol. Jahrb., XXXIII, 322-353, 16 figs.
There is a bibliography of 35 titles.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 59-61.
- 1907 A
Universelle und spezialisierte Kaubewegungen bei Säugetieren.
Biol. Centralbl., XXVII, 613-624.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 69-71.
- Lubosch, Wilhelm**—Continued 1908 A
Ueber Wirbeltiergelenke.
Anat. Anz., Ergänzungs., XXXII, 192-208, 12 text-figs.
- 1908 B
Das Kiefergelenk der Edentaten und Marsupialier; nebst Mittheilungen über die Kaumuskulatur dieser Thiere.
Semon's "Zool. Forschung.", IV, lfg. 4 (Denk. med. naturw. Gesellsch. Jena, VII), 519-556, pls. xxxi-xxxv, 9 text-figs.
Appended is a bibliography of 18 titles.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XIII, pt. 3, 71-75.
- 1909 A
Anpassungserscheinungen bei der Verkalkung des Selachierknorpels.
Anat. Anz., XXXV, 1-8, 8 figs.
The bibliography presents 6 titles.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 141.
- 1911 A
Allgemeine und spezielle Bemerkungen über Methode. Inhalt und Wert der Kritik, die Fuchs an meinen Untersuchungen über das Kiefergelenk der Säugetiere geübt hat.
Anat. Anz., XXXVIII, 310-333.
Prefixed is a list of 10 recent papers by Drüner, Fuchs and Lubosch dealing with the subject.
- 1911 B
Was lehrt die Phylogenie der Gelenke für die Beurteilung des Kiefergelenkes der Säugetiere?
Biol. Centralbl., XXXI, 738-751.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 68-70.
- 1914 A
Review of Abel's "Grundzüge der Paläobiologie der Wirbeltiere" (Abel, O., 1912 F).
Naturwiss. Berlin, II, 424-425.
- 1923 A
Die Bildung des Markknochens beim Hühnchen und Säugetieren und das Wesen der enchondralen Ossification in historischer Betrachtung.
Morphol. Jahrb., LIII, 49-93, 17 figs.
The bibliography occupies pages 92-93.
- 1926 A
Über die Gliederung der Rippen bei Amnioten.
Verh. Anat. Ges., XXXV, 103-117, 17 figs.
There are 6 titles in the bibliography.

- Lubsen, J.** 1905 A
Untersuchungen zur vergleichenden Segmental-Anatomie.
Petrus Camper. Bijdr. Anat., III, 431-484, 26 figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), XII, pt. 3, 64.
- Lucas, Johann Christian** 1872 A
Die Robbe und die Otter in ihrem Knochen- und Muskelskelet.
Abh. Senckenb. naturf. Ges., VIII, 277-378, pls. i-xiv, 8 text-figs.
- 1875 A
Die Robbe und die Otter in ihrem Knochen- und Muskelskelet.
Abh. Senckenb. naturf. Ges., IX, 369-496, pls. i-xvii.
This paper is devoted principally to a consideration of the muscles.
- Lucas, F. A.** 1887 A
Osteological note.
Science (n.s.), IX, 460-461
On rudimentary metacarpals in *Bison*.
- 1890 B
Description of some bones of Pallas' cormorant (*Phalacrocorax perspicillatus*).
Proc. U. S. Nat. Mus., XII, 88-94, pls. ii-iv.
- 1890 C
The expedition to Funk Island, with observations upon the history and anatomy of the great auk.
Rep. U. S. Nat. Mus., 1887-1888, 493-529, pls. lxxi-lxxiii.
- 1894 A
The bird's foot.
Nat. Sci., v, 208-210, 395-396.
- 1894 B
Notes on the air-sacs and hollow bones of birds.
Nat. Sci., IV, 36-37.
- 1898 E
Occurrence of mammoth remains on the Pribilof Islands.
Science (n.s.), VIII, 718.
- 1900 B
Abstract in Geol. Centralbl., II, 120.
- 1900 D
Abstract in Geol. Centralbl., II, 762.
- 1900 E
Abstract in Geol. Centralbl., II, 763.
- 1900 F
Abstract in Geol. Centralbl., II, 765.
- Lucas, F. A.—Continued** 1900 G
Description of a new species of fossil fish from the Esmeralda formation.
Rep. U. S. Geol. Surv., XXI, pt. II, 223-224, pl. xxxi.
Abstracts in Geol. Centralbl., II, 90; Neues Jahrb. Min. Geol. Pal., 1901, II, Ref., 477; Rev. crit. Paléozool., v, 157.
- 1900 H
Vertebrate fossils found in Idaho beds.
Rep. U. S. Geol. Surv., XX, pt. III, 99.
- 1901 A
Former land connections between Asia and North America.
Science (n.s.), XIII, 307.
- 1901 B
Vertebrates from the Trias of Arizona.
Science (n.s.), XIV, 376.
Abstract in Geol. Centralbl., III, 99.
- 1901 C
The phylogeny of the toothed whales.
Science (n.s.), XIV, 618-619.
- 1901 D
A new dinosaur, *Stegosaurus marshi*, from the Lower Cretaceous of South Dakota.
Proc. U. S. Nat. Mus., XXIII, 591-592, pls. xxiii, xxiv.
Abstracts in Geol. Centralbl., II, 764; Neues Jahrb. Min. Geol. Pal., 1901, II, Ref., 475; Rev. crit. Paléozool., VI, 10.
- 1901 E
A flightless auk, *Mancalla californiensis*, from the Miocene of California.
Proc. U. S. Nat. Mus., XXIV, 133-134, 3 text-figs.
Abstracts in Geol. Centralbl., III, 118; Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 460; Rev. crit. Paléozool., VI, 101; Naturw. Wochenschr., XVII (N.F.), 379.
- 1901 F
The restoration of extinct animals.
Rep. Smithsonian. Instn. for 1900, 479-492, pls. i-viii, 2 text-figs.
- 1901 G
A fossil, flightless auk.
Science (n.s.), XIII, 428-429.
- 1901 H
Some restorations of dinosaurs.
Science (n.s.), XIII, 586.

- Lucas, F. A.—Continued** 1901 I
The truth about the mammoth.
Rep. Smthson. Instn., for 1899, 353-359,
pls. i-iv.
Reprinted from McClure's Magazine, Feb.
1900.
- 1901 J
Animals of the past.
8vo., New York, i-xx+1-258 pages, 41 figs.
Review in Science (n.s.), xxxviii, 779-780.
- 1902 A
Paleontological notes. North Amer-
ican elephantids.
Science (n.s.), xv, 554-555.
Brief notice in Geol. Centralbl., ix, 581.
- 1902 B
Animals before man in North Amer-
ica.
New York, D. Appleton Co., 8vo., 1-291
pages, many figures.
- 1902 C
The dinosaurs, or terrible lizards.
Rep. Smthson. Instn. for 1901, 641-647,
pls. i-iv.
Abstract in Rev. crit. Paléozool., viii,
11-12.
- 1902 D
The greatest flying creature, the
great pterodactyl *Ornithostoma*.
Rep. Smthson. Instn. for 1901, 654-659,
pls. vi-vii, 1 text-fig.
Abstracts in Geol. Centralbl., ix, 582;
Neues Jahrb. Min. Geol. Pal., 1905, i, Ref.,
516.
Reprinted in Scient. Amer. Suppl., lv,
22645-22646.
- 1902 E
The armor of *Stegosaurus*.
Science (n.s.), xv, 469.
- 1902 F
Paleontological notes. The generic
name *Omosaurus*.
Science (n.s.), xvi, 435.
Proposes *Hoplosaurus* for *Stegosaurus*
marshi.
Abstract in Geol. Centralbl., ix, 582.
- 1902 G
Orange County mastodons.
Science (n.s.), xvi, 669.
- 1902 H
Clark on the classification of birds.
Auk, xix, 95-96.
- 1902 I
Constructing an extinct monster
from fossil remains.
Scient. Amer., lxxxvi, 43, 3 text-figs.
- Lucas, F. A.—Continued** 1902 J
Note on fossil horse teeth found in
Alaska.
U. S. Geol. Surv. Profess. Pap., ii, 27.
- 1903 A
Notes on the osteology and relation-
ship of the fossil birds of the genera
Hesperornis, *Hargeria*, *Baptornis*, and
Diatryma.
* Proc. U. S. Nat. Mus., xxvi, 545-556, 8
text-figs.
Abstracts in Geol. Centralbl., v, 327; Rev.
crit. Paléozool., viii, 5.
- 1903 B
The great auk.
Science (n.s.), xvii, 311-312.
- 1903 C
A skeleton of *Hesperornis*.
Smthson. Misc. Coll., xlv, 95, pl. xxvii.
Abstract in Geol. Centralbl., v, 376; also
in Jahresber. Anat. Entwickl. (N.F.), x,
Abth. 3, 173.
- 1903 D
A new plesiosaur.
Smthson. Misc. Coll., xlv, 96, pl. xxviii.
Abstracts in Geol. Centralbl., v, 377;
Jahresber. Anat. Entwickl. (N.F.), x, Abth.
3, 167; Rev. crit. Paléozool., ix, 126.
- 1904 A
A new batrachian and a new reptile
from the Trias of Arizona.
Proc. U. S. Nat. Mus., xxvii, 193-195,
pls. iii, iv.
Abstracts in Geol. Centralbl., v, 377;
Jahresber. Anat. Entwickl. (N.F.), x, Abth.
3, 162; Rev. crit. Paléozool., viii, 157.
- 1904 B
Paleontological notes.
Science (n.s.), xix, 436-437.
- 1904 C
The dinosaur *Trachodon annectans*.
Smthson. Misc. Coll., xlv, 317-320, pls.
lxxii, lxxiii, text-figs. 40-43.
Abstracts in Jahresber. Anat. Entwickl.
(N.F.), x, Abth. 3, 172; Geol. Centralbl.,
vii, 427; Rev. crit. Paléozool., ix, 121.
- 1904 D
Eocene whales.
Nature, lxxi, 102.
Abstract in Geol. Centralbl., ix, 581.
- 1904 E
The swallowing of stones by seals.
Science (n.s.), xx, 537-538.
- 1904 F
List of vertebrate bones in Nampa
[Idaho] quadrangle.
Folio U. S. Geol. Surv., ciii, 1-5, 2 maps.

- Lucas, F. A.**—Continued 1906 A
The elephants of the Pleistocene.
Maryland Geol. Surv. Pliocene and Pleistocene, Baltimore, 1906, 149-152, pls. xxxi, xxxiii.
Abstract in Geol. Centralbl., xi, 382.
- 1906 B
Mammalia [of the Pleistocene of Maryland].
Maryland Geol. Surv. Pliocene and Pleistocene, Baltimore, 1906, 157-169, pls. xxxiv-xl.
- 1906 C
Notes on some recent additions to the exhibition series of vertebrate fossils in the U. S. National Museum.
Science (n.s.), xxiii, 955.
- 1906 D
The penguins.
Science (n.s.), xxiv, 316-317.
- 1907 A
Momentum in variation.
Amer. Naturalist, xli, 46-47.
A criticism of Loomis, F. B., 1905 B.
- 1907 B
The tusks and size of the northern mammoth.
Science (n.s.), xxvi, 836-837.
- 1908 A
Is *Alabamornis* a bird?
Science (n.s.), xxvii, 311.
- 1908 B
The size of the mammoth.
Nature, lxxviii, 443.
Abstracts in Geol. Centralbl., xii, 297;
Sci. Progress, iii, 456.
- 1910 A
The armour of *Stegosaurus*.
Nature, lxxxv, 73.
Abstract in Sci. Progress, v, 682.
- 1910 B
Remark on *Alabamornis*.
Nature, lxxxv, 278.
- 1911 A
Note on the ribs of *Brachiosaurus*.
Nature, lxxxvii, 18.
- 1916 A
The beginnings of flight.
Amer. Mus. Jour., xvi, 5-11, 9 ill.
- 1916 B
Sea cows, past and present.
Amer. Mus. Jour., xvi, 315-318, 3 figs.
- Lühder, Wilhelm** 1871 A
Zur Bildung des Brustbeins und Schultergürtels der Vögel.
Jour. Ornith., xix, 321-353.
- Lütken, Christian** 1868 C
Om Ganoidernes Begraendning og Inddeling.
Vid. Medd. nat. For. Kjöbenh., 1868, 1-82, 14 text-figs.
For a résumé by the author see Arch. Sci. Phys. Nat., iv, 1871, 283-296; Abstracts in Neues Jahrb. Min. Geol. Pal., 1870, 594-603; Ann. Mag. Nat. Hist. (4), vii, 329-339.
- 1871 A
Sur les limites et la classification des ganoides.
Arch. Sci. Phys. Nat., xl, 283-296.
- 1874 A
Sur les différences dans la dentition que présentent, selon le sexe, les raies (*Raja*) qui habitent les côtes du Danemark.
Jour. Zool. Paris, iii, 318-321.
Abstract of paper in Vid. Medd. Nat. Kjöbenh., 1873.
- 1881 A
Spolia atlantica: Contributions to the knowledge of the changes of form in fishes during their growth and development, especially in the pelagic fishes of the Atlantic.
Ann. Mag. Nat. Hist. (5), vii, 1-14; 107-123.
- Lull, Richard S.** 1903 A
Skull of *Triceratops serratus*.
Bull. Amer. Mus. Nat. Hist., xix, 685-695, pls. lxx, lx, 1 text-fig.
Abstract in Geol. Centralbl., v, 376; Jahresber. Anat. Entwickl. (N.F.) x, Abth. 3, 172.
- 1904 A
Fossil footprints of the Jura-Trias of North America.
Mem. Boston Soc. Nat. Hist., v, 461-557, pl. lxxii, 34 text-figs.
An abstract of this paper by its author is found in the Amer. Jour. Sci. (4), xvii, 402-405. See also abstract in Geol. Centralbl., vii, 619.
- 1904 B
Note on the probable footprints of *Stegomus longipes*.
Amer. Jour. Sci. (4), xvii, 381-382, 1 text-fig.
Abstract in Geol. Centralbl., vii, 427.

Lull, Richard S.—Continued 1904 C
Adaptations to aquatic, arboreal, fossorial and cursorial habits in mammals. IV: Cursorial adaptations.

Amer. Naturalist, xxxviii, 1-11.
Abstract in Neues Jahrb. Min. Geol. Pal., 1906, I, Ref., 138-139.

1904 D

Nature's hieroglyphics.

Pop. Sci. Month., LXVI, 139-149, 7 figs.

Abstract in Geol. Centralbl., ix, 582.

1905 A

Restoration of the horned dinosaur *Diceratops*.

Amer. Jour. Sci. (4), xx, 420-422, pl. xiv.
Abstracts in Geol. Centralbl., viii, 378;
xi, 108; Neues Jahrb. Min. Geol. Pal., 1910,
ii, Ref., 143; Nature, LXXIII, 205.

1905 B

Restoration of the titanotheres *Megacerops*.

Amer. Naturalist, xxxix, 419-424, 3 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 173.

1905 C

Footprint interpretation.

Science (n.s.), xxi, 299.

1905 D

Megacerops tyleri, a new species of titanotheres from the Bad Lands of South Dakota.

Jour. Geol., xiii, 443-450, pls. iii, iv, 2 text-figs.

Abstracts in Geol. Centralbl., viii, 378;
Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 173.

1906 A

A new name for the dinosaurian genus *Ceratops*.

Amer. Jour. Sci. (4), xxi, 144.

Abstracts in Geol. Centralbl., viii, 378;
Nature, LXXIII, 1906, 422; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 142.

1906 B

Volant adaptation in vertebrates.

Amer. Naturalist, xi, 537-566, 14 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 122-123; Geol. Centralbl., xi, 425; Nature, London, LXXIV, 415.

1907 A

The evolution of the horse family, as illustrated in the Yale collections.

Amer. Jour. Sci. (4), xxiii, 161-182, 16 text-figs.

Abstracts in Geol. Centralbl., xi, 472;
Rev. crit. Paléozoöl., xi, 220; Sci. Progress, ii, 510.

Lull, Richard S.—Continued 1907 B
Phylogeny, taxonomy, distribution, habits and environment of the *Ceratopsia*.

Mon. U. S. Geol. Surv., xlix, 159-198; 295-300; pls. i-ii, text-figs. 121-125.

Abstracts in Rev. crit. Paléozoöl., xiii, 76; Amer. Jour. Sci. (4), xxvi, 98-99; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 160.

1908 A

The evolution of the elephant.

Amer. Jour. Sci. (4), xxv, 109-212, figs. 1-27, 4 charts.

Notes in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 136; Rev. crit. Paléozoöl., xii, 235.

Abstracts in Geol. Centralbl., xiii, 203; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 162.

1908 B

The cranial musculature and the origin of the frill in the ceratopsian dinosaurs.

Amer. Jour. Sci. (4), xxv, 387-399, pls. i-iii, 10 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 450; Nature, LXXVIII, 109; Sci. Progress, iii, 460; Rev. crit. Paléozoöl., xiii, 10-11.

1908 C

A comparative study of the musculature of the chameleon and a cheilonian.

Science (n.s.), xxvii, 255.

1909 A

The evolution of the elephant.

Rep. Smithson. Instn. for 1908, 641-675, pls. i, ii, 25 text-figs., 4 charts.

Abstract in Sci. Progress, iv, 663.

1909 B

A four-horned pelycosaurian from the Permian of Texas.

Amer. Jour. ci. (4), xxvii, 93.

Review of W. D. Matthew's paper under above title (Matthew, W. D., 1908 B).

1910 A

Dinosaurian distribution.

Amer. Jour. Sci. (4), xxix, 1-39, 10 text-figs.

The paper is followed by a list of works on the *Dinosauria*.

Abstracts in Geol. Centralbl., xv, 311; Nature, London, LXXXV, 1900, 285; Sci. Progress, v, 677-678; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 299; Rev. crit. Paléozoöl., xiv, 175; Nature, LXXXII, 437.

Lull, Richard S.—Continued 1910 B
Armor of *Stegosaurus*.

Amer. Jour. Sci. (4), **xxix**, 201-210, 11 text-figs.

Abstracts in Geol. Centralbl., **xv**, 311; Neues Jahrb. Min. Geol. Pal., 1910, **ii**, Ref., 289; Rev. crit. Paléozoöl., **xiv**, 174; Nature, **lxxxviii**, 137; Sci. Progress, **v**, 681.

1910 C

Stegosaurus ungulatus Marsh, recently mounted at the Peabody Museum of Yale University.

Amer. Jour. Sci. (4), **xxx**, 361-377, pl. ii, 10 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, **i**, Ref., 320; Geol. Centralbl., **xvi**, 218; Sci. Progress, **v**, 681; Rev. crit. Paléozoöl., **xv**, 147-149.

1910 D

Relation of embryology and vertebrate paleontology.

Pop. Sci. Month. **lxxvii**, 150-153.

Abstracts in Nature, **lxxxiv**, 211; Rev. crit. Paléozoöl., **xxi**, 42.

1911 A

Note on the parietal crest of *Centrosaurus apertus* and a proposed new name for *Stereocephalus tutus*; by Lawrence M. Lambe.—A review.

Amer. Jour. Sci. (4), **xxxi**, 339.

1911 B

The Reptilia of the Arundel formation.

Maryland Geol. Surv. Lower Cretaceous, 173-178.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, **ii**, Ref., 146-147; Geol. Centralbl., **xviii**, 523; Rev. crit. Paléozoöl., **xviii**, 1.

1911 C

Systematic paleontology of the Lower Cretaceous deposits of Maryland. Dinosauria.

Maryland Geol. Surv. Lower Cretaceous, 183-211, pls. xi-xx.

Abstracts in Geol. Centralbl., **xvii**, 562-567; **xviii**, 515; Neues Jahrb. Min. Geol. Pal., 1912, **ii**, Ref., 121; Rev. crit. Paléozoöl., **xviii**, 2.

1912 A

Symposium on ten years' progress in vertebrate paleontology. Cretaceous dinosaurs.

Bull. Geol. Soc. Amer., **xxiii**, 208-212.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Hay, Merriam, Dean, Eastman, Osborn, Williston and Sinclair.

Abstract in Rev. crit. Paléozoöl., **xvii**, 73.

Lull, Richard S.—Continued 1912 B
The evolution of the Ceratopsia.

Proc. Internat. Zool. Congr., **vii**, Boston, 1907, 771-777.

Reprints were evidently issued in 1910, before the complete volume.

Abstracts in Nature, **lxxxiv**, 1910, 89; Neues Jahrb. Min. Geol. Pal., 1910, **ii**, Ref., 301; Rev. crit. Paléozoöl., **xv**, 154-155.

1912 C

The armored dinosaur *Stegosaurus ungulatus*, recently restored at Yale University.

Verh. internat. Zool.-Kongr., **viii**, Graz, 1910, 672-681, 4 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1912, **ii**, Ref., 148.

1912 D

The life of the Connecticut Trias.

Amer. Jour. Sci. (4), **xxxiii**, 397-422, 5 figs.

There is a list of the fishes from Eastman, C. R., 1911 A; also a bibliography of 13 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, **ii**, 120; Geol. Centralbl., **xviii**, 559; Rev. crit. Paléozoöl., **xvii**, 77.

1913 A

The Yale collection of fossil horses. Coll. Yale Univ., No. 1, 1-12, 11 text-figs.

1913 B

The Yale expedition of 1912.

Bull. Geol. Soc. Amer., **xxiv**, 117.

1914 A

Fossil dolphin from California.

Amer. Jour. Sci. (4), **xxxvii**, 209-220, pl. vii, 7 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, **i**, Ref., 137-138; Geol. Zentralbl., **xxi**, 238; Nature **xcv**, 355.

1914 B

Note on the Farmington [Conn.] specimen [of *Mammot americanum*].

Amer. Jour. Sci. (4), **xxxvii**, 329-330.

Abstracts in Rev. crit. Paléozoöl., **xviii**, 153; Bull. Geol. Soc. Amer., **xxv**, 143.

1914 C

New mastodon find in Connecticut.

Bull. Geol. Soc. America, **xxv**, 143.

A brief abstract.

1914 D

Rulers of the Mesozoic.

Yale Review (n.s.), **iii**, 352-363.

1914 E

Elephants and their progenitors.

Sci. Conspectus, **iv**, 61-70, 2 pls., 8 figs.

- Lull, Richard S.—Continued 1915 A
Triassic life of the Connecticut valley.
Bull. Geol. and Nat. Hist. Surv. Conn., xxiv, 1-285, 12 plates, 4 maps, 126 figures.
There are presented lists of the species of vertebrates found at each of 42 localities.
Abstract in Nature, London, xcvi, 657;
Rev. crit. Paléozoöl., xx, 90.
For Lull's list of species see Abel, O., 1926 B, 25-27.
- 1915 B
A Pleistocene ground sloth, *Myiodon harlani*, from Rock Creek, Texas.
Amer. Jour. Sci. (4), xxxix, 327-385, 16 text-figs.
Abstracts in Rev. crit. Paléozoöl., xx, 88;
Geol. Zentralbl., xxv, 271.
- 1915 C
Sauropoda and Stegosauria of the Morrison of North America compared with those of Europe and eastern Africa.
Bull. Geol. Soc. Amer., xxvi, 323-334.
Abstract in Rev. crit. Paléozoöl., xx, 3.
- 1915 D
The mammals and horned dinosaurs of the Lance formation of Niobrara County, Wyoming.
Amer. Jour. Sci. (4), xl, 319-348, 5 text-figs.
Abstract in Geol. Zentralbl., xxv, 272.
- 1915 E
Ant-hill fossils.
Pop. Sci. Month., 1915, 236-243, 4 text-figs.
- 1915 F
Dinosaurs, the rulers of the Mesozoic.
Schuchert and Pirsson's "Text-book of Geology," 831-843, pls. xxxi-xxxiii.
- 1915 G
Review of Williston's "Water reptiles of the past and present."
Science (n.s.), xli, 391-392.
- 1917 A
On the functions of the "sacral brain" in dinosaurs.
Amer. Jour. Sci. (4), xlv, 471-477.
Abstract in Rev. crit. Paléozoöl., xxiv, 88.
- 1917 B
Organic evolution. A text-book.
8vo., i-xviii+1-729 pages, pls. i-xxx, 253 text-figs.
Abstract in Rev. crit., Paléozoöl., xxii, 51-55. Brief review in Jour. Geol., xxvi, 285.
- Lull, Richard S.—Continued 1917 C
Barosaurus: A gigantic sauropod dinosaur.
Bull. Geol. Soc. Amer., xxviii, 214 (abstract).
1917 D
The Triassic fauna and flora of the Connecticut valley.
Bull. U. S. Geol. Surv., xcvi, 105-127, pls. iii, iv.
1917 E
Horned artiodactyl from the Tertiary of Nebraska.
Bull. Geol. Soc. Amer., xxviii, 211.
1917 F
Brontotherium: A new mount in the Yale Museum.
Bull. Geol. Soc. Amer., xxviii, 214 (abstract).
1918 A
Fossil footprints from the Grand Canyon of the Colorado.
Amer. Jour. Sci. (4), xlv, 337-346, pls. i-iii, 3 text-figs.
Abstracts in Rev. crit. Paléozoöl., xxii, 107; Geol. Zentralbl., xxv, 43.
1918 B
The development of vertebrate paleontology.
Amer. Jour. Sci. (4), xlv, 193-221.
1918 C
The pulse of life.
Chap. iv, 109-146, figs. 14-30, of "The Evolution of the Earth and its Inhabitants." 8vo., New Haven, 1918.
1919 A
Samuel Wendell Williston.
Amer. Jour. Sci. (4), xlviii, 220-224.
An obituary notice.
1919 B
Review of papers by C. W. Gilmore (Gilmore, C. W., 1914 A and 1918 C).
Amer. Jour. Sci. (4), xlvii, 236-238.
1919 C
The sauropod dinosaur *Barosaurus* Marsh.
Mem. Conn. Acad. Sci., vi, 1-42, pls. i-vii, 10 text-figs.
Abstracts in Rev. crit. Paléozoöl., xxiv, 147; Neues Jahrb. Min. Geol. Pal., 1922, 1, Ref., 253; Nature, cv, 117.
1920 A
New Tertiary artiodactyls.
Amer. Jour. Sci. (4), l, 83-130, pl. i, 25 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388; Rev. Géol. et Sci. conn., iv, 1923, 98; Geol. Zentralbl., xxvi, 505; Nature, cvi, 189.
Review in Rev. crit. Paléozoöl., xxvii, 16.

Lull, Richard S.—Continued 1920 B
An Upper Carboniferous footprint
from Attleboro, Massachusetts.

Amer. Jour. Sci. (4), 1, 234-236, 1 fig.
Abstract in Rev. Géol. et Sci. conn., iv,
1923, 95; Nature, cviii, 482.

Review in Rev. crit. Paléozool., xxvii, 13.

1921 A

The Cretaceous armored dinosaur
Nodosaurus textilis Marsh.

Amer. Jour. Sci. (5), 1, 98-126, pls. i-iv,
7 text-figs.

The bibliography records 16 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1922, 1, Ref., 254; Rev. Géol. et Sci. conn.,
iv, 1923, 95; Geol. Zentralbl., xxviii, 507.

Review in Rev. crit. Paléozool., xxvii, 13.

1921 B

Fauna of the Dallas sand pits.

Amer. Jour. Sci. (5), ii, 159, 176, figs. 1-5

Abstract in Rev. Géol. et Sci. conn., iv,
1923, 99; Geol. Zentralbl., xxvii, 184.

Review in Rev. crit. Paléozool., xxvii, 17

1921 C

New camels in the Marsh collection.

Amer. Jour. Sci. (5), 1, 392-404, figs. 1-5.

Abstracts in Neues Jahrb. Min. Geol.
Pal., 1921, ii, Ref., 338, Rev. Géol. et Sci.
conn., iv, 1923, 99; Geol. Zentralbl., xxvii,
29.

Review in Rev. crit. Paléozool., xxvii, 17.

1922 A

Restoration of *Blastomeryx marshi*.

Amer. Jour. Sci. (5), iii, 158-161, 2 figs.

Abstracts in Rev. Geol. et Sci. conn., v,
111; Rev. crit. Paléozool., xxviii, 6, 1924;
Geol. Zentralbl., xxviii, 153; Neues Jahrb.
Min. Geol. Pal., 1923, 1, 317-318.

1922 B

Primitive Pecora in the Yale Mu-
seum.

Amer. Jour. Sci. (5), iv, 111-119, 1 fig.

There is a bibliography of 9 titles. Ab-
stracts in Rev. Géol. et Sci. conn., v, 110-
111; Rev. crit. Paléozool., xxvii, 214; xxviii,
6; Neues Jahrb. Min. Geol. Pal., 1924, 1,
414; Geol. Zentralbl., xxix, 221.

1922 C

Variations or specific distinctions:
Which?

Bull. Geol. Soc. Amer., xxxiii, 599, 604.

1922 D

Abstract of Branislav Petronievics'
"Über das Becken, den Schultergürtel,
etc., der Londoner *Archaeopteryx*."

Amer. Jour. Sci. (4), iii, 382-383.

Lull, Richard S.—Continued 1924 A
Dinosaurian climatic response.

Chapter vii of "*Organic adaptation to en-
vironment*." New Haven. Yale University
Press. Pages 225-279, figs. 22-34, and chart.
The bibliography comprises 40 titles.

Abstract in Geol. Zentralbl., xxxii, 507.

1924 B

Samuel Wendell Williston, 1852-
1918.

Mem. Nat. Acad. Sci., xvii, 115-141,
portrait.

Pages 136-141 are occupied by lists of his
scientific papers. Of these 12 are concerned
with geology; 9 with anthropological ques-
tions, 138 with vertebrate paleontology.

1926 A

Early fossil hunting in the Rocky
Mountains.

Nat. Hist., xxvi, 455-462, 5 figs.

1926 B

Yale's great new museum of evolu-
tion.

Scient. Amer., Oct. 1926, 278-279, illus-
trations.

1927 A

A new footprint locality.

Amer. Jour. Sci. (5), xiv, 48, 49, fig. 1.

See also Huene and Lull.

Lund, Peter Wilhelm 1838 A

[A brief report on the investiga-
tions of the fossil mammals of the
caves of Minas Geraes, Brazil.]

Danske Vidensk. Selsk. Forh. Overs., 1838,
7-15.

1839 C

[A brief report on further investi-
gations of the fossil mammals of the
caves of Minas Geraes, Brazil.]

Danske Vidensk. Selsk. Forh. Overs., 1839,
19-23.

1841 A

Blik paa Brasiliens Dryeverden för
sidste Jordomvæltning.

Danske Vid. Selsk. Afhandl., viii, 27-57,
61-86, 217-296, pls. i-xxvii.

Lurje, Mira 1906 A

Über die Pneumatisation des Tau-
benschädels.

Anat. Hefte, Arb., xxxi, 1-61, pls. i-x,
1 fig.

The bibliography includes 11 titles.

Luthe, Walter 1924 A

Ueber die Fusswurzelknochen der
Fischottern.

Arch. Naturges., xc, Abt. A, Heft 4, 59-
141, pls. i-vii, 7 text-figs.

The bibliography presents 16 titles.

- Luther, A.** 1909 A
Beiträge zur Kenntnis von Muskulatur und Skelett des Kopfes des Haies *Stegostoma tigrinum* Gm. und der Holocephalen; mit einem Anhang über die Nasenrinne.
There is a bibliography of 73 titles.
- 1913 A
Beiträge zur Kenntnis des Kopf-skelets der Knorpelganoiden.
Acta. Soc. Sci. Fenn., xli, art. 8, 1-26, 10 text-figs.
A bibliography of 40 titles is appended
Abstract in Jahresber. Anat. Entwickl (N.F.), xix, pt. 3, 77-80.
- 1913 B
Ueber die vom N. trigeminus versorgte Muskulatur der Ganoiden und Dipneusten.
Acta Soc. Sci. Fenn., xli, art. 9, 1-72, 1 pl., 28 text-figs.
There is appended a bibliography of 77 titles.
- Lwoff, W.** 1884 A
Beiträge zur Histologie der Haut der Reptilien.
Bull. Soc. Natural. Moscou, lx, 313-334, pl. ix.
- Lydekker, R.** 1879 A
Elementary sketch of the osteology of birds.
Stray Feathers, Calcutta, viii, 1-36, 4 pls.
- 1882 B
Siwalik Camelopardalidæ.
Mem. Geol. Surv. India. Palæont. Indica (ser. 10), ii, 99-142 (33-44), pls. xvi-xxii.
- 1884 C
See Hay, O. P., 1902 A, p. 147.
Reviewed in Ann. Mag. Nat. Hist. (5), xvi, 66-72.
- 1885 F
The labyrinthodont from the Bijori Group.
Palæont. Ind. (4), i, pt. 4, 1-16, pls. i-iv.
- 1885 G
The Reptilia and Amphibia of the Maleri and Denwa groups.
Palæont. Ind. (4), i, pt. 5, 1-38, pls. i-vi.
- 1886 F
On the occurrence of the crocodilian genus *Tomistoma* in the Miocene of the Maltese Islands.
Quart. Jour. Geol. Soc., xlii, 20-22, pl. ii.
- 1886 G
M. L. Dollo on new chelonians from the Eocene of Belgium.
Geol. Mag. (3), iii, 521-522.
- Lydekker, R.**—Continued 1887 B
The Cetacea of the Suffolk Crag.
Quart. Jour. Geol. Soc., xliii, 7-18, pl. ii, 2 text-figs.
- 1887 C
Note on the Hordwell and other crocodilians.
Geol. Mag. (3), iv, 207-212.
- 1887 D
Description of a jaw of *Hyoherium* from the Pliocene of India.
Quart. Jour. Geol. Soc., xliii, 19-22, 1 fig.
- 1887 E
On certain dinosaurian vertebræ from the Cretaceous of India and the Isle of Wight.
Quart. Jour. Geol. Soc., xliii, 156-160, 1 fig.
- 1888 F
Note on the nomenclature of three genera of fossil Mammalia.
Ann. Mag. Nat. Hist. (6), i, 384.
- 1889 M
Preliminary notice of new fossil Chelonina.
Ann. Mag. Nat. Hist. (6), iii, 53-54.
- 1889 N
Note on a chelonian humerus from the Middle Eocene of Bracklesham.
Proc. Geol. Assoc., xi, 177-179.
- 1891 A
Catalogue of the fossil birds in the British Museum.
London, i-xxvii+1-368 pages, 75 figs.
Review in Geol. Mag. (3), viii, 378-381.
- 1892 C
On zeuglodont and other cetacean remains from the Tertiary of the Caucasus.
Proc. Zool. Soc. Lond., 1892, 558-564, pls. xxxvi-xxxviii.
- 1893 F
Note on the coracoidal element in adult sloths, with remarks on its homology.
Proc. Zool. Soc. Lond., 1893, 172-174, 3 text-figs.
- 1894 B
The La Plata Museum.
Nat. Sci., iv, 26-35; 117-128.
- 1896 C
A hand-book to the Marsupialia and Monotremata.
Lloyd's Natural History Ser. 8vo., i-xvi+1-320 pages, 38 colored plates. The same published in 1894 formed a part of "Allen's Natural History." London.
Notice of in Nat. Sci., v, 135.

- Lydekker, R.**—Continued 1896 D
 A handbook to the Carnivora. Pt. I: Cats, civets and mongooses. London, i-viii+1-312 pages, pls. i-xxxii. Edited by R. Bowlder Sharpe. Part of "Lloyd's Natural History Series."
- 1896 E
 Recent discoveries in avian palæontology. Sci. Progress, v, 398-416. The bibliography presents 36 titles.
- 1898 C
 Recent and fossil rhinoceroses. Nature, LIX, 87-88. Review of Osborn, H. F., 1898 I.
- 1898 D
 Wild oxen, sheep and goats of all lands, living and extinct. 4to., London, 1898, i-xv+1-318 pages, 27 pls., 61 text-figs.
- 1899 A
 On the skull of a shark-toothed dolphin from Patagonia. Proc. Zool. Soc. Lond., 1899, 919-922, 2 figs.
- 1899 B
 The dental formula of the marsupial and placental Carnivora. Proc. Zool. Soc. Lond., 1899, 922-928, pl. lxii. Abstract in Neues Jahrb. Min. Geol. Pal., 1903, I, Ref., 140-141.
- 1901 A
 Pterodactyles. Nature, LXIV, 645-646. A review of H. G. Seeley's "Dragons of the Air."
- 1901 B
 Armour-clad whales. Nature, LXIV, 652-653. An article based on Abel's "Ueber die Hautbepanzerung fossiler Zahnwale." Abstract in Geol. Centralbl., II, 442.
- 1901 C
 Some animals exterminated during the nineteenth century. Nature, LXIII, 252-254. Abstract in Globus, LXXIX, 180-181.
- 1901 D
 Mammoth ivory. Rep. Smithsonian. Instn. for 1899, 361-366. Reprinted from Knowledge, London, in Scient. Amer. Suppl., No. 1223, July 15, 1899.
- 1902 A
 How the sabre-toothed tigers killed their prey. Nature, LXVI, 357-358. Refers to W. D. Matthew's paper on the subject.
- Lydekker, R.**—Continued 1902 B
 A text-book of mammals. Nature, LXVI, 373-375. A review of Beddard's work on Mammalia, volume x of the Cambridge Natural History.
- 1903 A
 Note on a reindeer skull from Novaia Zemlia. Proc. Zool. Soc. Lond., 1902, II, 300-302, 1 text-fig.
- 1903 B
 The significance of the callosities on the limbs of the Equidae. Proc. Zool. Soc. Lond., 1903, 199-203.
- 1903 C
 Giant land-tortoises. Knowledge, XXVI (N.S. XVIII), 54-56, 2 illus.
- 1903 D
 The palæontological case for evolution. Knowledge, XXVI (N.S. XVIII), 73-76; 100-102; 123-126.
- 1903 E
 The ancestry of the elephant. Knowledge, XXVI (N.S. XVIII), 169-172, 3 figs.
- 1904 A
 The ancestry of the horse. Knowledge, XXVI (N.S. XVIII), Pan. 1904, 16-19, 4 figs.
- 1904 B
 The ancestry of the camel. Knowledge, I, 25-28, 5 figs.
- 1904 C
 The ancestry of the Carnivora. Knowledge, I, 61-64, 5 figs.
- 1904 D
 The later history of the horse. Knowledge, I, 171-174, 3 figs.
- 1905 A
 Some fossil reptiles. Knowl. Scient. News (N.S.), II, 304.
- 1905 B
 The Connecticut footprints. Knowl. Scient. News (N.S.), II, 278.
- 1905 C
 An extinct sea-lion. Knowl. Scient. News (N.S.), II, 230. Refers to *Pontolis magnus* True.
- 1905 D
 The lower jaw of mammals. Knowl. Scient. News (N.S.), II, 230.
- 1905 E
 The Carnegie dinosaur. Knowl. Scient. News (N.S.), II, 134.

- Lydekker, R.—Continued** 1905 F
Fossil marmot burrows.
Knowl. Scient. News (n.s.), II, 134.
- 1906 A
Some rudimentary structures.
Knowl. Scient. News (n.s.), III, 472-475, 4 figs.
- 1906 B
Weights of whales and dinosaurs.
Knowl. Scient. News (n.s.), III, 391.
- 1907 A
Guide to the specimens of the horse family (Equidae) exhibited in the Department of Zoology, British Museum (Natural History), Cromwell Road, London, S.W.
2-42 pages, 26 figs.
- 1907 B
Guide to the great game animals (Ungulata) in the Department of Zoology, British Museum (Natural History).
i-viii+1-93 pages, 53 figs.
- 1907 C
A year's progress in vertebrate palaeontology.
Sci. Progress, I, 448-464.
- 1907 D
Marsupial or creodonts?
Nature, LXXV, 498-499.
- 1907 E
The recently discovered Tertiary Vertebrata of Egypt.
Sci. Progress, I, 668-682.
- 1908 A
The year's (1907) vertebrate palaeontology.
Sci. Progress, II, 501-524.
- 1908 B
The horned dinosaurs.
Nature, LXXXVIII, 544-545, 1 fig.
- 1909 A
On two Chinese serow-skulls.
Proc. Zool. Soc. Lond., 1908, 940-944, text-figs. 191, 192.
- 1909 B
Primitive diprotodonts.
Nature, LXXXI, 294.
A review of Gidley, J. W., 1909 A.
- 1909 C
Vertebrate palaeontology in 1908.
Sci. Progress, III, 450-471.
- Lydekker, R.—Continued** 1909 D
Guide to the whales, porpoises, and dolphins (order Cetacea).
British Museum, 1-47, 33 figs.
Comment on in Ann. Mag. Nat. Hist. (3), IX, 529.
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A revision of *Palæomastodon*, dividing it into two genera, and with descriptions of two new species.
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On two species of fossil Pinnipedia from Kazusa and Saghalin.
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Sci. Rep. Tohoku Imp. Univ. (2, Geol.), No. 2, x, 17-25, pl. xi (i).
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On *Bison exguus* and its ancestry.
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- 1912 B
Zur Entwicklung des Kopfskelettes der Sirenen. I: Die Regio ethmoidalis des Primordialekraniums von *Manatus latirostris*.
Jena. Zeitschr. Naturwiss., xlviii, 489-514, 8 text-figs.
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Anat. Anz., LIV, 209-229, 6 figs.
There is a bibliography of 29 titles.

1921 B

Zur Kenntniss des Knorpelschädels von *Halicore dugong*.

Zool. Anz., LII, 139-151, 2 figs.
The bibliography contains 12 titles.

1921 C

Zur Entwicklung des Kopskelettes der Sirenen. II: Das Primordialcranium von *Halicore dugong*.

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Rep. Geol. Surv. Canada. Rep. Progress for 1877-1878, x, 1-36.

1903 A

Note in reference to batrachian footprints.

Bull. Nat. Hist. Soc. N. Brunsw., v, 102.

1903 B

On batrachian and other footprints from the Coal Measures of Joggins, N. S.

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1903 C

New genera of batrachian footprints of the Carboniferous system in eastern Canada.

Canad. Rec. Sci., IX, 99-111, 1 plate.
For brief abstract see Neues Jahrb. Min. Geol. Pal., 1905, I, 339.

1903 D

An attempt to classify Palæozoic batrachian footprints.

Trans. Roy. Soc. Canada (2), IX, sec. iv, 109-116, pls. i-iii.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, I, Ref., 339; Geol. Centralbl., IX, 661; Rev. crit. Paléozool., IX, 128.

Matthew, George F.—Continued 1904 A

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Trans. Roy. Soc. Canada (2), x, sec. iv, 77-122, pls. 1-vi.

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1904 B

Note on the genus *Hylopus* of Dawson.

Bull. Nat. Hist. Soc. N. Brunsw., v, 247-252, 1 text-fig.

Abstract in Geol. Centralbl., XII, 599.

1907 A

A new genus and a new species of Silurian fish.

Trans. Roy. Soc. Canada (3), I, sec. iv, 7-9, 1 plate.

Abstract in Jahresber. Anat. Entwickl. (N.F.), XIV, pt. 3, 158.

1910 A

Remarkable forms of the Little River group.

Trans. Roy. Soc. Canada (3), III, sec. 4, 115-133, pls. i-iv.

Abstract in Geol. Centralbl., XVI, 61-62.

Matthew, W. D. 1899 A

A provisional classification of the freshwater Tertiary of the West.

See Hay, O. P., 1902 A, 165. Reviewed in Neues Jahrb. Min. Geol. Pal., 1901, II, Ref., 136-139.

1901 A

Additional observations on the Creodonta.

Bull. Amer. Mus. Nat. Hist., XIV, 1-38, text-figs. 1-17.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1903, II, Ref., 430-434; Geol. Centralbl., III, 115; Rev. crit. Paléozool., VII, 8.

1901 B

Fossil mammals of the Tertiary of northeastern Colorado.

Mem. Amer. Mus. Nat. Hist., I, 355-448, pls. xxxvii-xxxix, text-figs. 1-34.

Besides the systematic descriptions, this paper presents a discussion of the stratigraphy of the region and lists of the genera and species which have been found in the various beds.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, I, Ref., 123-134; Geol. Centralbl., III, 117.

Matthew, W. D.—Continued 1902 A

A skull of *Dinocyon* from the Miocene of Texas.

Bull. Amer. Mus. Nat. Hist., xvi, 129-136, 4 figures.

Abstract in Geol. Centralbl., iv, 400; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 126.

1902 B

On the skull of *Bunelurus*, a musteline from the White River Oligocene.

Bull. Amer. Mus. Nat. Hist., xvi, 137-140, 3 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 296; Geol. Centralbl., iv, 399.

1902 C

New Canidae from the Miocene of Colorado.

Bull. Amer. Mus. Nat. Hist., xvi, 281-290, 4 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 294-296; Geol. Centralbl., iv, 400; Rev. crit. Paléozoöl., viii, 6-7.

1902 D

A horned rodent from the Colorado Miocene, with a revision of the *Mylogauli*, beavers, and hares of the American Tertiary.

Bull. Amer. Mus. Nat. Hist., xvi, 291-310, 17 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 301-303; Geol. Centralbl., iv, 401; Rev. crit. Paléozoöl., viii, 7; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 117.

1902 E

The skull of *Hypisodus*, the smallest of the Artiodactyla, with a revision of the Hypertragulidae.

Bull. Amer. Mus. Nat. Hist., xvi, 311-316, 4 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 141-142; Geol. Centralbl., iv, 400; Rev. crit. Paléozoöl., viii, 5; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 123.

1902 F

List of the Pleistocene fauna from Hay Springs, Nebraska.

Bull. Amer. Mus. Nat. Hist., xvi, 317-322.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 296-297; Rev. crit. Paléozoöl., viii, 8; Geol. Centralbl., iv, 393; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 113.

1902 G

The hall of fossil vertebrates.

Amer. Mus. Jour., Suppl., ii, 2-19, 11 plates.

Matthew, W. D.—Continued 1902 H

News notes.

Amer. Mus. Jour., ii, 40, 41. An unsigned article.

1903 A

The evolution of the horse.

Amer. Mus. Jour. Suppl., iii, No. 1 (Guide leaflet No. 9), 1-30, 7 plates; 4 text-figs.

A second edition was issued in 1909.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 462-463; Geol. Centralbl., v, 461; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 175.

1903 B

The fauna of the Titanotherium beds at Pipestone Springs, Montana.

Bull. Amer. Mus. Nat. Hist., xix, 197-226, 19 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 460-462; Geol. Centralbl., v, 375; Rev. crit. Paléozoöl., viii, 6; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 179.

1903 C

A fossil hedgehog from the American Oligocene.

Bull. Amer. Mus. Nat. Hist., xix, 227-230, 1 fig.

Abstracts in Geol. Centralbl., vi, 55; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 179; Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 472; Rev. crit. Paléozoöl., viii, 6.

1903 D

Concerning the ancestry of the dogs.

Science (n.s.), xvii, 912-913.

Abstract in Geol. Centralbl., vi, 55.

1903 E

The collection of fossil vertebrates.

A guide leaflet to the exhibition halls of vertebrate palaeontology in the American Museum of Natural History.

Amer. Mus. Jour., Suppl. for January, iii, 1-32, 15 plates.

Abstract in Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 175.

1903 F

Second Cope collection.

Amer. Mus. Jour., iii, 3-5.

An unsigned article.

1904 A

A complete skeleton of *Merycodus*.

Bull. Amer. Mus. Nat. Hist., xx, 101-129, pl. iii, 21 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 311-314; Geol. Centralbl., vii, 426; Rev. crit. Paléozoöl., viii, 152-153; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 190; Geol. Mag. (5), i, 518.

Matthew, W. D.—Continued 1904 B

Notice of two new Oligocene camels.

Bull. Amer. Mus. Nat. Hist., xx, 211-215.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 178; Geol. Centralbl., vii, 424; Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 301; Rev. crit. Paléozoöl., ix, 4.

1904 C

New or little known mammals from the Miocene of South Dakota. American Museum Expedition of 1903. Pt. II: Carnivora and Rodentia.

Bull. Amer. Mus. Nat. Hist., xx, 246-265, figs. 1-13.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 127-130; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 174-175; Geol. Centralbl., vii, 424.

1904 D

The arboreal ancestry of the Mammalia.

Amer. Naturalist, xxxviii, 811-818.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, i, Ref., 139-140; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 174; Rev. crit. Paléozoöl., ix, 180; Geol. Centralbl., vii, 618.

1904 E

Exhibition of the series of foot bones illustrating the evolution of the camel, recently installed in the Hall of Vertebrate Paleontology of the American Museum of Natural History.

Science (n.s.), xix, 892.

1904 F

The evolution of the camel.

Amer. Geologist, xxxiii, 397.

1905 A

Notice of two new genera of mammals from the Oligocene of South Dakota.

Bull. Amer. Mus. Nat. Hist., xxi, 21-26, 6 figs.

Abstracts in Geol. Centralbl., viii, 373; Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 299-300; Rev. crit. Paléozoöl., ix, 118; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 172.

1905 B

Notes on the osteology of *Sinopa*, a primitive member of the Hyænodontidæ.

Proc. Amer. Philos. Soc., xlv, 69-72.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 127-128; Geol. Centralbl., viii, 374.

1905 C

On Eocene Insectivora and on *Pantolestes* in particular.

Science (n.s.), xxi, 298-299.

Matthew, W. D.—Continued 1905 D

Fossil carnivores, marsupials and small mammals.

Amer. Mus. Jour., v, 22-59, 27 figs.

Reprinted as Guide leaflet No. 17, 1-41, 27 figs.

Abstracts in Geol. Centralbl., vii, 617; Rev. crit. Paléozoöl., ix, 117.

1905 E

The mounted skeleton of *Brontosaurus*.

Amer. Mus. Jour., v, 62-70, 4 figs.

Abstract in Geol. Centralbl., viii, 378.

1906 A

Fossil Chrysochloridæ in North America.

Science (n.s.), xxiv, 786-788.

Abstract in Sci. Progress, ii, 506.

1906 B

Hypothetical outlines of the continents in Tertiary times.

Bull. Amer. Mus. Nat. Hist., xxii, 353-383, 7 maps.

1906 C

The osteology of *Sinopa*, a creodont mammal of the Middle Eocene.

Proc. U. S. Nat. Mus., xxx, 203-233, pl. xvi, text-figs. 1-20.

Abstracts in Geol. Centralbl., xi, 107; Sci. Progress, i, 450; Rev. crit. Paléozoöl., x, 198.

1907 A

A lower Miocene fauna from South Dakota.

Bull. Amer. Mus. Nat. Hist., xxiii, 169-219, 26 figs.

Abstracts in Amer. Jour. Sci. (4), xxiv, 379-380; Science (n.s.), xxviii, 921; Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 306-310; Sci. Progress, ii, 506; Geol. Centralbl., xi, 380-381; Rev. crit. Paléozoöl., xi, 217.

1907 B

The relationships of the "Sparasodonta."

Geol. Mag. (5), iv, 531-535.

1907 C

The skeleton of the Columbian mammoth.

Amer. Mus. Jour., vii, 5-7.

An unsigned article.

1907 D

Department of vertebrate paleontology; field expedition of 1906.

Amer. Mus. Jour., vii, 6-8.

An unsigned article.

1907 E

The *Naosaurus* or "ship-lizard."

Amer. Mus. Jour., vii, 36-41, 2 figs.

An unsigned article.

Matthew, W. D.—Continued 1907 F

When brute force ruled the earth.
Discovery, New York, 1, 42.

1908 A

Osteology of *Blastomeryx* and phylogeny of the American Cervidae.

Bull. Amer. Mus. Nat. Hist., xxiv, 535-562, figs. 1-13.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, 1, Ref., 136; Geol. Centralbl., xiii, 393; Rev. crit. Paléozool., xiii, 72; Amer. Jour. Sci. (4), xxvii, 93; Naturw. Rundschau, xxiv, 1909, 448; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 162; Sci. Progress, iii, 454.

1908 B

A four-horned pelycosaurian from the Permian of Texas.

Bull. Amer. Mus. Nat. Hist., xxiv, 183-185, 1 fig.

For abstracts see Neues Jahrb. Min. Geol. Pal., 1908, 1, Ref., 285-286; Sci. Progress, iii, 467; Amer. Jour. Sci. (4), xxvii, 93; Geol. Centralbl., xiii, 396.

1908 C

Mammalian migrations between Europe and North America.

Amer. Jour. Sci. (4), xxv, 68-70.

Abstract in Geol. Centralbl., xiii, 394.

1908 D

Revision of the Pelycosauria of North America. By E. C. Case.

Science (n.s.), xxvii, 816-818.

A review of Case, E. C., 1907 E.

1908 E

Allosaurus, a carnivorous dinosaur, and its prey.

Amer. Mus. Jour., viii, 3-5, fig.

Abstracts in Geol. Centralbl., xi, 332;

Neues Jahrb. Min. Geol. Pal., 1912, 1, Ref., 139.

1908 F

Completion of *Trachodon* group.

Amer. Mus. Jour., viii, 89.

1908 G

Exhibition of *Orohippus osbornianus*.

Amer. Mus. Jour., viii, 89.

1908 H

Fossil fishes.

Amer. Mus. Jour., viii, 110.

1908 I

Exhibit illustrating the evolution of the horse.

Amer. Mus. Jour., viii, 117-122, 5 text-figs.

Matthew, W. D.—Continued 1909 A

Observations upon the genus *Ancondon*.

Bull. Amer. Mus. Nat. Hist., xxvi, 1-7.

Abstracts in Geol. Centralbl., xvi, 220; Rev. crit. Paléozool., xiii, 72; Sci. Progress, iv, 660.

1909 B

Report on skull of *Bison latifrons* in American Museum.

Science (n.s.), xxix, 198.

1909 C

Faunal lists of the Tertiary Mammalia of the West.

Bull. U. S. Geol. Surv., cccxi, 91-138.

Abstract in Rev. crit. Paléozool., xiii, 147-149.

1909 D

The Carnivora and Insectivora of the Bridger basin, Middle Eocene.

Mem. Amer. Mus. Nat. Hist., ix, 291-567, pls. xli-lii, text-figs. 1-118.

Abstracts in Amer. Jour. Sci. (4), xxviii, 500; Neues Jahrb. Min. Geol. Pal., 1911, 1, Ref., 503-519; Geol. Centralbl., xv, 217; Rev. crit. Paléozool., xiv, 163-168; Sci. Progress, iv, 654-657, figs. 1, 2.

1909 E

On a skull of *Apternodus*.

Science (n.s.), xxix, 196.

1909 F

Recent purchases of fossil vertebrates.

Amer. Mus. Jour., ix, 68-69.

1909 G

The oldest land reptiles of North America.

Amer. Mus. Jour., ix, 91-95, 5 text-figs.

1910 A

On the skull of *Apternodus* and the skeleton of a new artiodactyl.

Bull. Amer. Mus. Nat. Hist., xxviii, 33-42, pl. vi, 5 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1912, 1, Ref., 356-358; Geol. Centralbl., xvii, 39; Sci. Progress, v, 665-666; Rev. crit. Paléozool., xiv, 168.

1910 B

On the osteology and relationships of *Paramys*, and the affinities of the *Ischyromyidae*.

Bull. Amer. Mus. Nat. Hist., xxviii, 43-72, pls. i-v, 19 text-figs.

Abstracts in Geol. Centralbl., xvii, 38-39; Sci. Progress, v, 668-669; Rev. crit. Paléozool., xiv, 168; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 212.

Matthew, W. D.—Continued 1910 C

The phylogeny of the Felidae.

Bull. Amer. Mus. Nat. Hist., xxviii, 289-316, 15 text-figs.

Reviews in Neues Jahrb. Min. Geol. Pal., 1912, i, Ref., 353-356; Geol. Centralbl., xvi, 214-215; Nature, lxxxv, 287; Sci. Progress, v, 666; Rev. crit. Paléozoöl., xv, 22; Amer. Jour. Sci. (4), xxx, 421-422; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 211.

1910 D

The pose of sauropodous dinosaurs.

Amer. Naturalist, xlv, 547-560.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 323-325; Geol. Centralbl., xvii, 43; Nature, lxxxv, 288; Sci. Progress, v, 679.

1910 E

Schlosser on Fayum mammals.

Amer. Naturalist, xlv, 700-703.

Abstract in Sci. Progress, v, 662-663.

1910 F

The Tyrannosaurus.

Amer. Mus. Jour., x, 3-8, 6 figs.

1910 G

Patagonia and the Pampas Cenozoic of South America. A critical review of the correlations of Santiago Roth, 1908.

Ann. N. Y. Acad. Sci., xix, 149-160, pl. xiv.

1910 H

The continuity of development.

Pop. Sci. Month., lxxvii, 473-478.

Abstracts in Sci. Progress, v, 661; Rev. crit. Paléozoöl., xviii, 198.

1910 I

The new plesiosaur. A great marine reptile of the ancient world.

Amer. Mus. Jour., x, 246-250, 4 plates.

1911 A

Fort Lee dinosaur.

Amer. Mus. Jour., xi, 28-29.

1911 B

The ground sloth group.

Amer. Mus. Jour., xi, 113-119, 4 figs.

Abstract in Rev. crit. Paléozoöl., xvii, 204.

1911 C

A tree climbing ruminant.

Amer. Mus. Jour., xi, 162-163, 1 fig.

Abstract in Rev. crit. Paléozoöl., xvii, 200.

1911 D

The amphibians of the great coal swamps.

Amer. Mus. Jour., xi, 197-200, 2 figs.

Abstract in Rev. crit. Paléozoöl., xviii, 7, 94.

1911 E

Fossil vertebrates—what they teach.

Amer. Mus. Jour., xi, 246-247.

Matthew, W. D.—Continued 1912 A

Symposium on ten years progress in vertebrate paleontology. African mammals.

Bull. Geol. Soc. Amer., xxiii, 156-162.

For the other articles of this symposium see the 1912 papers of Peterson, Gidley, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Osborn, Williston and Sinclair.

1912 B

Symposium on ten years progress in vertebrate paleontology. Carnivora and Rodentia.

Bull. Geol. Soc. Amer., xxiii, 181-187.

1912 C

The new four-toed horse skeleton.

Amer. Mus. Jour., xii, 186, 1 fig.

Name of the genus and species not given.

A species of *Eohippus*.

1912 D

New dinosaurs for the American Museum.

Amer. Mus. Jour., xii, 219.

1912 E

Facts and theories relating to the ancestry of man.

Amer. Mus. Jour., xii, 255-256.

1912 F

The ancestry of the edentates, as illustrated by the skeleton of *Hapalops*, a Tertiary ancestor of the ground sloths.

Amer. Mus. Jour., xii, 300-303, figs.

Reprinted with additions and further illustrations. Pages 1-8, with figs.

Abstracts in Sci. Progress, viii, 637; Rev. crit. Paléozoöl., xvii, 201; Nature, xcii, 106.

1912 G

Fossil walrus skull from Penobscot Bay.

Amer. Mus. Jour., xii, 269.

An unsigned article.

1913 A

A zalambdodont insectivore from the Basal Eocene.

Bull. Amer. Mus. Nat. Hist., xxxiii, 307-314, pls. ix, xxi, 6 text-figs.

Abstracts in Ann. N. Y. Acad., xxxiii, 263; Neues Jahrb. Min. Geol. Pal., 1913, i, Ref., 140; Sci. Progress, viii, 629; Rev. crit. Paléozoöl., xvii, 199; xxi, 49; Geol. Zentralbl., xxi, 234; Nature, xcii, 106.

1913 B

Certain theoretical considerations affecting phylogeny and correlation.

Bull. Geol. Soc. Amer., xxiv, 283-292, 1 text-fig.

Abstract in Geol. Centralbl., xx, 701-702; Rev. crit. Paléozoöl., xvi, 198-199.

- Matthew, W. D.**—Continued 1913 C
American Museum expeditions for fossil vertebrates.
Amer. Mus. Jour., XIII, 286-287.
- 1913 D
The asphalt group of fossil skeletons. The tar-pits of Rancho-La-Brea, California.
Amer. Mus. Jour., XIII, 290-297, 6 plates.
Abstracts in Sci. Progress, VIII, 628; Nature, XCII, 457, 640.
- 1913 E
The laws of nomenclature in paleontology.
Science (n.s.), XXXVII, 788-792.
- 1913 F
Evolution of the horse.
Amer. Mus. Guide leaflet 36, 1-62, 38 figs.
The bibliography presents 29 titles.
- 1913 G
A tiny fossil skull.
Amer. Mus. Jour., XIII, 48.
- 1913 H
Nomenclature in paleontology.
Science (n.s.), XXXVIII, 87-88.
- 1914 A
[Systematic position of the mylodont sloths.]
Bull. Geol. Soc. Amer., XXV, 144.
- 1914 B
Evidence of the Paleocene vertebrate fauna on the Cretaceous-Tertiary problem.
Bull. Geol. Soc. Amer., XXV, 381-402, 3 text-figs.
Abstract in Rev. crit. Paléozoöl., XX, 38.
- 1914 C
Report of progress in the revision of the Lower Eocene faunas.
Bull. Geol. Soc. Amer., XXV, 144-145.
- 1914 D
New discoveries in the American Eocene.
Rep. Brit. Assoc. Adv. Sci., LXXXIII, Birmingham, 1913, 491.
- 1914 E
Extinct vertebrates.
Rep. Amer. Mus. Nat. Hist., XLV, for 1913, 57-59.
A brief report of the activities of the department of vertebrate paleontology.
- 1914 F
Origin of Argentine wild horses.
Nature, XCII, 661.
- Matthew, W. D.**—Continued 1914 G
Time ratios in the evolution of mammalian phyla. A contribution to the problem of the age of the earth.
Science (n.s.), XL, 232-235.
Abstract in Rev. crit. Paléozoöl., XXIV, 43.
- 1914 H
Notes on auditory ossicles of rodents.
Bull. Amer. Mus. Nat. Hist., XXXIII, 350-351, 379-380.
- 1914 I
Fossils from Rancho La Brea.
Amer. Mus. Jour., XIV, 46.
An unsigned article.
- 1914 J
The largest known dinosaur. A huge extinct reptile from German East Africa, the largest known quadruped.
Scient. Amer., CXI, 443, 446-447, 1 fig.
- 1914 K
Two new fossil mammals of the Lower Eocene.
Amer. Mus. Jour., XIV, 167.
An unsigned article.
- 1914 L
Discovery of *Moropus* skeletons.
Amer. Mus. Jour., XIV, 269.
- 1914 M
Note on *Felis atrox*.
Nature, XCII, 640.
- 1915 A
Climate and evolution.
Ann. N. Y. Acad. Sci., XXIV, 171-318, 33 figs.
Review in Amer. Jour. Sci. (4), XL, 83-85.
- 1915 B
Mammoths and mastodons.
Amer. Mus. Guide leaflet 43, 1-26, 1 plate, 16 text-figs.
Abstracts in Geol. Zentralbl., XXII, 538; Geol. Mag. (6), III, 128.
- 1915 C
Dinosaurs; with special reference to the American Museum collections.
Amer. Mus. Nat. Hist., Handbook. No. 5, 1-117; 160-162, 1 plate, 40 text-figs.
Abstracts in Rev. crit. Paléozoöl., XX, 91; Geol. Zentralbl., XXII, 445; Nature, XCVI, 716, fig.
- 1915 D
A revision of the Lower Eocene Wasatch and Wind River faunas. Part I: Order Feræ (Carnivora). Suborder Creodonta.
Bull. Amer. Mus. Nat. Hist., XXXIV, 1-103, 87 text-figs.
Abstract in Nature, XCV, 276.

- Matthew, W. D.—Continued 1915 E**
 A revision of the Lower Eocene Wasatch and Wind River faunas. Part II: Order Condylarthra, family Hyopsodontidae.
 Bull. Amer. Mus. Nat. Hist., xxxiv, 311-328, 10 text-figs.
-
- 1915 F**
 A revision of the Lower Eocene Wasatch and Wind River faunas. Part IV: Entelonychia, Primates, Insectivora (part).
 Bull. Amer. Mus. Nat. Hist., xxxiv, 429-483, pl. xv, 52 text-figs.
 Abstracts in Nature, xcvi, 236; Rev. crit. Paléozoöl., xix, 100, xx, 88.
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- 1915 G**
 New discoveries in the lower Eocene mammals.
 Ann. N. Y. Acad. Sci., xxiv, 383.
-
- 1915 H**
 A new sirenian from the Tertiary of Porto Rico.
 Ann. N. Y. Acad. Sci., xxvi, 439.
-
- 1915 I**
 Affinities of *Hyoposodus*.
 Bull. Geol. Soc. Amer., xxvi, 152.
 A brief abstract.
-
- 1915 J**
 Reconstruction of the skeleton of *Brachiosaurus*.
 Bull. Geol. Soc. Amer., xxvi, 153.
 A brief abstract.
-
- 1915 K**
 The Tertiary sedimentary record and its problems.
 Dana Commem. Lectures. Problems of American Geology, 377-478, 2 pls., 40 figs.
-
- 1915 L**
 Report on fossil vertebrates of eastern Texas.
 Bull. Geol. Soc. Amer., xxvi, 470-472.
 Incorporated in Dumble, E. T., 1915 A.
 Same as Matthew, W. D., 1920 E.
-
- 1916 A**
 A marsupial from the Belly River Cretaceous. With critical observations upon the affinities of the Cretaceous mammals.
 Bull. Amer. Mus. Nat. Hist., xxxv, 477-500, pls. ii-vi, 4 text-figs.
Eodelphis browni is described.
 Abstracts in Rev. crit. Paléozoöl., xxi, 54; Nature, xcvi, 175; Neues Jahrb. Min. Geol. Pal., 1918, Ref., 207-210.
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- Matthew, W. D.—Continued 1916 B**
 New sirenian from the Tertiary of Porto Rico, West Indies.
 Ann. N. Y. Acad. Sci., xxvii, 23-29, 2 figs.
 Abstracts in Ann. N. Y. Acad. Sci., xxvi, 439; Rev. crit. Paléozoöl., xxii, 1.
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- 1916 C**
 Methods of correlation by fossil vertebrates.
 Bull. Geol. Soc. Amer., xxvii, 515-524.
 Abstract in Rev. crit. Paléozoöl., xxiv, 44.
-
- 1916 D**
 The grim wolf of the tar pits.
 Amer. Mus. Jour., xvi, 45-47, 2 figs.
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- 1916 E**
 A reptilian aeronaut. A new skeleton of the giant flying reptile of the Cretaceous period.
 Amer. Mus. Jour., xvi, 251-252, 1 fig.
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- 1916 F**
 Scourge of the Santa Monica mountains.
 Amer. Mus. Jour., xvi, 469-472, 2 figs.
 Refers to *Smilodon californicus*.
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- 1916 G**
 Kunz on *Ivory and the Elephant*.
 Amer. Mus. Jour., xvi, 485-495, 13 figs.
 A review.
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- 1916 H**
 Supplementary note. [On climate and evolution.]
 Ann. N. Y. Acad. Sci., xxvii, 11-15.
 Rejoinder to Barbour, T., 1916 A.
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- 1916 I**
 Recent progress in vertebrate paleontology. Mammals.
 Science (n.s.), xliii, 107-110.
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- 1916 J**
 The horse and his progenitors.
 Sci. Conspectus, vi, 1-14, 9 figs.
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- 1916 K**
 Dinosaurs from Alberta.
 Amer. Mus. Jour., xvi, 74-75.
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- 1917 A**
 Absence of the pollex in Perissodactyla.
 Bull. Amer. Mus. Nat. Hist., xxxvii, 573-577.
 Abstracts in Rev. crit. Paléozoöl., xxii, 58; Geol. Zentralbl., xxvii, 223.
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- 1917 B**
 A Paleocene bat.
 Bull. Amer. Mus. Nat. Hist., xxxvii, 569-571.
 Gives a description of *Zanycteris paleocenus* gen. et sp. nov.
 Abstracts in Geol. Mag. (6), iv, 516; Rev. crit. Paléozoöl., xxiv, 91; Geol. Zentralbl., xxvii, 223.

Matthew, W. D.—Continued 1917 C

The dentition of *Nothodectes*.

Bull. Amer. Mus. Nat. Hist., xxxvii, 531-539, pls. xcix-cii.

Abstracts in Rev. crit. Paléozool., xxv, 8; Geol. Zentralbl., xxvii, 222.

1917 D

A fossil deer from Argentina. With a discussion of the distribution of various types of deer in North and South America.

Amer. Mus. Jour., xvii, 207-211, 2 illustrations.

1917 E

Gigantic *Megatherium* from Florida.

Bull. Geol. Soc. Amer., xxviii, 212 (abstract).

1917 F

Duck-billed dinosaurs. Census of fossil skeletons.

Amer. Mus. Jour., xvii, 419.

1918 A

Contributions to the Snake Creek fauna; with notes upon the Pleistocene of western Nebraska; American Museum Expedition of 1916.

Bull. Amer. Mus. Nat. Hist., xxxviii, 183-229, pls. iv-x, 20 text-figs.

Abstract in Rev. Géol. et Sci. conn., iv, 1923, 101-103.

Reviews in Nat. Hist., xix, 732; Rev. crit. Paléozool., xxvii, 19.

1918 B

A fortunate collector. The discoverer [William Stein] of the giant bird *Diatryma*, which was found in the Bighorn Basin of Wyoming.

Amer. Mus. Jour., xviii, 338, 3 illustrations.

1918 C

Generic nomenclatures of the Proboscidea.

Bull. Geol. Soc. Amer., xxix, 141 (Abstract).

1918 D

Affinities and phylogeny of the extinct Camelidæ.

Bull. Geol. Soc. Amer., xxix, 144 (abstract).

1918 E

Notes on the American Pliocene rhinoceroses.

Bull. Geol. Soc. Amer., xxix, 153 (abstract).

Matthew, W. D.—Continued 1918 F

The mounted skeleton of *Moropus* in the American Museum.

A "clawed" ungulate, from the Middle Tertiary of Nebraska.

Amer. Mus. Jour., xviii, 121-123, 2 figs.

1918 G

A Tertiary alligator.

Amer. Mus. Jour., xviii, 503-506, 1 fig.

1918 H

A revision of the Lower Eocene Wasatch and Wind River faunas. Insectivora (continued), Glires, Edentata.

Bull. Amer. Mus. Nat. Hist., xxxviii, 565-657, 68 text-figs.

1918 I

Affinities and origin of the Antillean mammals.

Bull. Geol. Soc. Amer., xxix, 657-666

Abstract in Rev. Géol. et Sci. conn., iv, 1923, 100-101.

Review in Rev. crit. Paléozool., xxvii, 18.

1918 J

Skeletons of Cuban ground sloth in the Havana and American museums.

Amer. Mus. Jour., xviii, 313, 2 figs.

Figures *Megalocnus*.

1919 A

Reply to Mr. Burroughs.

Nat. Hist., xix, 491-493.

See Burroughs, J., 1919 A.

1919 B

Recent discoveries of fossil vertebrates in the West Indies and their bearing on the origin of the Antillean fauna.

Proc. Amer. Philos. Soc., lviii, 161-181.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 103-105; Geol. Zentralbl., xxvii, 120.

1920 A

A new genus of rodents from the Middle Eocene.

Jour. Mamm., i, 168-169.

1920 B

Flying reptiles.

Nat. Hist., xx, 73-81, 4 figs.

1920 C

Three-toed horses. A fossil record that provides direct evidence of evolution.

Nat. Hist., xx, 473-478.

- Matthew, W. D.**—Continued 1920 D
Canadian dinosaurs.
Nat Hist., xx, 536-544.
Issued in 1921.
Abstract in Rev. Géol. et Sci. conn., 1923, 105.
Review in Rev. crit. Paléozoöl., xxvii, 23.
- 1920 E
[Report on east Texas vertebrates.]
Bull. Univ. Texas, No. 1869, 225; 231-233.
- 1921 A
Stehlinius, a new Eocene insectivore.
Amer. Mus. Novit., No. 14, 1-5.
Abstract in Geol. Zentralbl., xxvii, 120.
- 1921 B
Notes on the scientific museums of Europe.
Nat. Hist., xxi, 185-190.
- 1921 C
The Cannonball Lance formation.
Science (n.s.), liv, 27-29.
- 1921 D
Fossil vertebrates and the Cretaceous-Tertiary problem.
Amer. Jour. Sci. (5), ii, 209-227.
Abstract in Geol. Zentralbl., xxvii, 184.
- 1921 E
Ursus and bison.
Nat. Hist., xxi, 598-606, illustrations.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 106.
- 1921 F
Why paleontology?
Nat. Hist., xxi, 639-641, 1 figure.
- 1921 G
Notes—Paleontology.
Nat. Hist., xxi, 658-662, 2 figures.
- 1921 H
A note on the Cernaysian mammal fauna.
Amer. Jour. Sci. (5), i, 509-511.
Contains quotations from Teilhard de Chardin.
- 1922 A
Errors and changes.
In Gregory, W. K., 1922 A, pages xiii-xiv.
- 1922 B
Phyletic relations of Lance vertebrates.
Pan-Amer. Geol., xxxvii, 68-69.
- 1922 C
A superdreadnaught of the animal world.
The armored dinosaur *Palaeoscincus*.
Nat. Hist., xxi, 333-342, 6 figs.
- Matthew, W. D.**—Continued 1923 A
Geological occurrence of the *Hesperopithecus* tooth.
Amer. Mus. Novit., No. 53, 11-13.
- 1923 B
Review of Zittel's *Grundzüge der Paläontologie*. II Abt. Vertebrata, Neuarbeitet von F. Broili und Max Schlosser, 1923.
Science (n.s.), lviii, 107-109.
- 1923 C
Recent progress and trends in vertebrate paleontology.
Bull. Geol. Soc. Amer., xxxiv, 401-418.
- 1923 D
Fossil bones on the rock. The fossil quarry near Agate, Sioux County, Nebraska.
Nat. Hist., xxxii, 353-360, 11 figs. Abstract in Nature, cxii, 522.
- 1923 E
Stratigraphy of the Snake Creek fossil quarries and the correlation of the faunas (Abstract).
Bull. Geol. Soc. Amer., xxxiv, 131.
- 1923 F
Fossil vertebrates.
Nat. Hist., xxxii, 520.
- 1924 A
Note on *Serridentinus* Osborn.
Amer. Mus. Novit., cxlviii, 5.
- 1924 B
Fossil horses from the Texas Pliocene.
Nat. Hist., xxiv, 629-631.
- 1924 C
Third contribution to the Snake Creek fauna.
Bull. Amer. Mus. Nat. Hist., i, 59-210, 63 figs.
Abstract in Geol. Zentralbl., xxxii, 376.
- 1924 D
A new link in the ancestry of the horse.
Amer. Mus. Novit. No. 131, 1-2.
- 1924 E
Correlation of the Tertiary formations of the Great Plains.
Bull. Geol. Soc. Amer., xxxv, 743-754, 1 table.
- 1924 F
Vertebrate paleontology. Welcomed home by a dinosaur. Fossil birds from Nebraska.
Nat. Hist., xxiv, 118-120, 1 fig.

- Matthew, W. D.**—Continued 1924 G
Fossil horses from the Texas Pliocene.
Nat. Hist., xxiv, 629-631.
- 1924 H
Vertebrate fossils.
Nat. Hist., xxiv, 726-727.
- 1925 A
Fossil mammals from St. Petersburg, Florida.
Nat. Hist., xxv, 97.
- 1925 B
Blanco and associated formations of northern Texas.
Bull. Geol. Soc. Amer., xxxvi, 221-222.
- 1925 C
The value of paleontology.
Nat. Hist., xxv, 166-168.
- 1925 D
An American fossil giraffe, *Giraffa nebrascensis*, sp. nov.
Bull. Neb. State Mus., i, No. 4, 33-39, figs. 14-20.
- 1925 E
A dissenting opinion.
Proc. Nat. Acad. Sci., xi, art. 12, 751.
In Osborn, H. F., 1925 C.
- 1926 A
Note on rhinoceroses.
Bull. Dept. Geol. Univ. Calif., xvi, 50.
In Stock and Furlong, 1926 A.
- 1926 B
On a new primitive deer and two traguloid genera from the Lower Miocene of Nebraska.
Amer. Mus. Novit., No. 215, 1-8, 3 figs.
- 1926 C
The evolution of the horse. A record and its interpretation.
Quart. Rev. Biol., i, 139-185, 27 figs.
The extensive bibliography is found on pages 178-185.
- 1926 D
Early days of fossil hunting in the high Plains.
Nat. Hist., xxvi, 449-454, 5 figs.
- 1928 A
Xenotherium, an edentate.
Jour. Mamm., ix, 70, 71.
- , and B. Brown 1915 A
Corythosaurus, the new duck-billed dinosaur.
Amer. Mus. Jour., xv, 427-428.
- Matthew, W. D., and B. Brown**—Continued 1922 A
The family Deinodontidae, with notice of a new genus from the Cretaceous of Alberta.
Bull. Amer. Mus. Nat. Hist., xlv, 367-385, 1 text-fig.
Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 106-107; Geol. Zentralbl., xxxviii, 444; Neues Jahrb. Min. Geol. Pal., i, 304-306.
Review in Rev. crit. Paléozoool., xxvii, 24.
- 1923 A
Preliminary notices of skeletons and skulls of Deinodontidae from the Cretaceous of Alberta.
Amer. Mus. Novit., No. lxxxix, 1-9, 5 figs.
Review in Rev. crit. Paléozoool., xxviii, 169, 1924.
Abstract in Geol. Zentralbl., xxx, 442.
- , and Harold Cook 1909 A
A Pliocene fauna from western Nebraska.
Bull. Amer. Mus. Nat. Hist., xxvi, 361-414, 27 text-figs.
Abstracts in Geol. Centralbl., xv, 649; Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 285-288; Amer. Jour. Sci. (4), xxviii, 500-501; Rev. crit. Paléozoool., xiv, 9; Sci. Progress, iv, 652.
- 1909 B
Pliocene fauna from western Nebraska.
Science (n.s.), xxix, 196-197.
- , and W. Granger 1915 A
See Matthew, W. D., 1915 D, E, F.
- 1917 A
The skeleton of *Diatryma*, a gigantic bird from the Lower Eocene of Wyoming.
Bull. Amer. Mus. Nat. Hist., xxxvii, 307-326, pls. xx-xxxiii, 1 text-fig.
Abstracts in Bull. Geol. Soc. Amer., xx, 212; Rev. crit. Paléozoool., xxv, 56; Geol. Zentralbl., xxvii, 223; Nature, cv, 117; Sci. Progress, xii, 425; Geol. Mag. (6), iv, 469.
- 1917 B
A giant Eocene bird.
Amer. Mus. Jour., xvii, 416-418, 2 figs.
- 1921 A
New genera of Paleocene mammals.
Amer. Mus. Novit., No. 13, 1-7.
Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 106; Geol. Zentralbl., xxvii, 120.
Review in Rev. crit. Paléozoool., xxvii, 24.
- 1923 A
The fauna of the Houldjin gravels.
Amer. Mus. Novit., No. 97, 1-9, 6 figs.

- Matthew, W. D., and W. Granger—**
 Continued 1923 B
 Nine new rodents from the Oligocene of Mongolia.
 Amer. Mus. Novit., No. 102, 1-10, 12 figs.
 ——— 1924 A
 New insectivores and ruminants from the Tertiary of Mongolia, with remarks on the correlation.
 Amer. Mus. Novit., No. 105, 1-7, 3 figs.
 ——— 1924 B
 New Carnivora from the Tertiary of Mongolia.
 Amer. Mus. Novit., No. 104, 1-9, 7 figs.
 ——— 1925 A
 Fauna and correlation of the Gashato formation of Mongolia.
 Amer. Mus. Novit., No. 106, 1-12, 14 figs.
 ——— 1925 B
 New creodonts and rodents from the Ardyn Obo formation of Mongolia.
 Amer. Mus. Novit., No. 103, 1-7, 9 figs.
 ——— 1925 C
 New mammals from the Shara Murun Eocene of Mongolia.
 Amer. Mus. Novit., No. 104, 1-11, 10 figs.
 ——— 1925 D
 New mammals from the Irdin Manha Eocene of Mongolia.
 Amer. Mus. Novit., No. 108, 1-10, 10 figs.
 ——— 1925 E
 New ungulates from the Ardyn Obo formation of Mongolia.
 Amer. Mus. Novit., No. 105, 1-12, 13 figs.
 ——— 1925 F
 The smaller perissodactyls of the Irdin Manha formation, Eocene of Mongolia.
 Amer. Mus. Novit., No. 100, 1-9, 9 figs.
 See **Cope** and **Matthew**, 1915 A.
- Maxon, John H.** 1928 A
Merychippus isomesus from the later Tertiary of the Crooked River region, Oregon.
 Geol. Soc. Amer. (Cordill. Sec.), 27th meet. Berkeley. List of papers with abstracts, 23.
- Mayer, A. F.** 1842 A
 Ueber die Bestimmung der sogenannten Beutelknochen.
 Fornep's Notizen, XXI, cols. 164-165
 ——— 1849 A
 Ueber das Becken des Delphins.
 Arch. Anat. Physiol., Med., 1849, 583-587.
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— **1908 B**
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— **1908 C**
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Mem. Univ. Calif., **i**, 1-196, pls. 1-xviii, 154 text-figs.

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— **1908 D**
Death-trap of the ages.
Sunset Mag., **xxi**, 467-475, 10 illustrations.
A popular account of the tar pools at Rancho La Brea, Calif.

Abstract in Geol. Mag. (5), **vi**, 228.

— **1909 A**
The skull and dentition of an extinct cat closely allied to *Felis atrox* Leidy.

Bull. Dept. Geol. Univ. Calif., **v**, 291-304, pl. xxvi, 3 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, **i**, Ref., 134; Geol. Centralbl., **xiv**, 488; Rev. crit. Paléozool., **xiv**, 12; Amer. Jour. Sci. (4), **xxviii**, 501; Sci. Progress, **iv**, 653.

— **1909 B**
The occurrence of strepsicerine antelopes in the Tertiary of northwestern Nevada.

Bull. Dept. Geol. Univ. Calif., **v**, 319-330, text-figs. 1-7.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, **i**, 311; Geol. Centralbl., **xiv**, 489; Rev. crit. Paléozool., **xiv**, 169; Amer. Jour. Sci. (4), **xxix**, 271; Sci. Progress, **iv**, 660.

— **1909 C**
A death-trap which antedates Adam and Eve.

Harper's Weekly **lxxx**, Dec. 18, 11-12, 9 figs.

Merriam, John C.—Continued 1909 D
Note on the occurrence of human remains in Californian caves.

Science (n.s.), **xxx**, 531-532.

— **1910 A**
New Mammalia from Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., **v**, 391-395.
Abstract in Geol. Centralbl., **xv**, 62.

— **1910 B**
The skull and dentition of a primitive ichthyosaurian from the Middle Triassic.

Bull. Dept. Geol. Univ. Calif., **v**, 381-390, pl. xl.

Describes *Phalarodon fraasi* new genus and species.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1910, **i**, Ref., 462; Geol. Centralbl., **xv**, 218; Rev. crit. Paléozool., **xiv**, 82; Sci. Progress, **vi**, 575.

— **1910 C**
Tertiary mammal beds of Virgin Valley and Thousand Creek in northwestern Nevada. Pt. I: Geologic history.

Bull. Dept. Geol. Univ. Calif., **vi**, 21-53, pls. 1-xii.

Review in Rev. crit. Paléozool., **xvi**, 80.

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— **1910 D**
The relation of paleontology to the history of man, with particular reference to the American problem.
Pop. Sci. Month., **lxxvii**, 597-601.

— **1910 E**
The true story of the Calaveras skull.

Sunset Mag., **xxiv**, 153-158, 7 illustrations.

— **1911 A**
Note on a gigantic bear from the Pleistocene of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., **vi**, 163-166, figs. 1-3.

Describes new species *Arctotherium californicum*.

— **1911 B**
Tertiary mammal beds of Virgin Valley and Thousand Creek in northwestern Nevada. Pt. II: Vertebrate faunas.

Bull. Dept. Geol. Univ. Calif., **vi**, 199-304, pls. xxxii, xxxiii, 80 text-figs.

Abstract in Sci. Progress, **vi**, 558.

Merriam, John C.—Continued 1911 C

Notes on the relationships of the marine saurian fauna described from the Triassic of Spitzbergen by Wiman.

Bull. Dept. Geol. Univ. Calif., vi, 317-327, 6 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, ii, 476; Sci. Progress, vi, 574.

Review in Rev. crit. Paléozoöl., xvi, 150.

1911 D

Notes on the genus *Desmostylus* of Marsh.

Bull. Dept. Geol. Univ. Calif., vi, 403-412, 11 text-figs.

Abstracts in Geol. Centralbl., xvii, 703; Sci. Progress, vi, 564.

Review in Rev. crit. Paléozoöl., xvi, 78.

1911 E

A collection of mammalian remains from Tertiary beds on the Mohave Desert.

Bull. Dept. Geol. Univ. Calif., vi, 167-169, pl. xxix.

Abstract in Geol. Centralbl., xvii, 37.

1911 F

The fauna of Rancho La Brea. Pt. I: Occurrence.

Mem. Univ. Calif., i, 197-213, pls. xix-xxiii, 1 text-fig.

Review in Rev. crit. Paléozoöl., xvi, 83.

1912 A

Recent discoveries of Carnivora in the Pleistocene of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., vii, 39-46, 10 text-figs.

Abstracts in Geol. Centralbl., xix, 442; Sci. Progress, viii, 5.

1912 B

Symposium on ten years progress in vertebrate paleontology. Marine reptiles.

Bull. Geol. Soc. Amer., xxiii, 221-223.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Dean, Eastman, Osborn, Williston and Sinclair.

1912 C

The fauna of Rancho La Brea. Pt. II: Canidæ.

Mem. Univ. Calif., i, 215-272, pls. xxiv-xxviii, 43 text-figs.

Abstracts in Geol. Centralbl., xix, 400; Sci. Progress, viii, 5; Rev. crit. Paléozoöl., xvii, 4.

Merriam, John C.—Continued 1913 A

Tapir remains from late Cenozoic beds of the Pacific Coast region.

Bull. Dept. Geol. Univ. Calif., vii, 169-175, 2 text-figs.

Abstracts in Geol. Centralbl., xx, 703; Nature, xciii, 514.

1913 B

The skull and dentition of a camel from the Pleistocene of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., vii, 305-323, text-figs. 1-11.

Abstracts in Geol. Centralbl., xx, 703; Rev. crit. Paléozoöl., xvii, 202.

1913 C

A peculiar horn or antler from the Mohave Miocene of California.

Bull. Dept. Geol. Univ. Calif., vii, 335-339, 4 text-figs.

Abstract in Rev. crit. Paléozoöl., xx, 43.

1913 D

Notes on the canid genus *Tephrocyon*.

Bull. Dept. Geol. Univ. Calif., vii, 350-372, 16 text-figs.

Abstracts in Geol. Centralbl., xx, 703; Sci. Progress, viii, 630; Rev. crit. Paléozoöl., xx, 41.

1913 E

Vertebrate fauna of the Orindan and Siestan beds in middle California.

Bull. Dept. Geol. Univ. Calif., vii, 373-385, 9 text-figs.

Abstracts in Rev. crit. Paléozoöl., xx, 42; Geol. Zentralbl., xxi, 38.

1913 F

Preliminary report on the horses of Rancho La Brea.

Bull. Dept. Geol. Univ. Calif., vii, 397-418, 14 text-figs.

Abstracts in Rev. crit. Paléozoöl., xix, 10; L'Anthrop. Paris, xxvi, 1915, 567; Geol. Zentralbl., xxi, 233.

1913 G

New anchitheriine horses from the Tertiary of the Great Basin area.

Bull. Dept. Geol. Univ. Calif., vii, 419-434, 5 text-figs.

Abstracts in Rev. crit. Paléozoöl., xix, 8; Geol. Zentralbl., xxi, 233.

1913 H

New protohippine horses from Tertiary beds on the western border of the Mohave Desert.

Bull. Dept. Geol. Univ. Calif., vii, 435-441, 4 text-figs.

Abstracts in Rev. crit. Paléozoöl., xix, 9; Geol. Zentralbl., xxi, 234.

Merriam, John C.—Continued 1914 A

The occurrence of Tertiary mammalian remains in northeastern Nevada.

Bull. Dept. Geol. Univ. Calif., VIII, 275-281, 3 text-figs.

Abstracts in Rev. crit. Paléozool., XX, 42; Geol. Zentralbl., XXIX, 472.

1914 B

Preliminary report on the discovery of human remains in an asphalt deposit at Rancho La Brea.

Science (n.s.), XI, 198-203.

1914 C

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Science (n.s.), XI, 643-645.

1914 D

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Folio U. S. Geol. Surv., San Francisco, CXCIII, 13-15.

1914 E

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Jour. Geol., XXII, 818.

1914 F

The Brea maid.

Bull. So. Calif. Acad. Sci., XIII, 27-29.

1914 G

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Bull. Geol. Soc. Amer., XXV, 156 (Abstract).

1915 A

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Abstracts in Rev. crit. Paléozool., XXI, 86; Geol. Zentralbl., XXXIX, 473.

1915 B

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Bull. Dept. Geol. Univ. Calif., VIII, 283-288, 7 text-figs.

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1915 C

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Bull. Dept. Geol. Univ. Calif., VIII, 377-382, pl. xii, 3 text-figs.

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Merriam, John C.—Continued 1915 D

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Bull. Dept. Geol. Univ. Calif., IX, 49-58, 12 text-figs.

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1915 E

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Trans. Amer. Philos. Soc. (2), XXII, 191-234, 49 text-figs.

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1915 F

Extinct faunas of the Mohave desert, their significance in a study of the origin and evolution of life in America.

Pop. Sci. Month., LXXXVI, 245-264, 11 text-figs.

1915 G

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1915 H

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Bull. Geol. Soc. Amer., XXVI, 136-137.

A brief abstract.

1916 A

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Bull. Dept. Geol. Univ. Calif., IX, 161-198, pl. viii, 48 text-figs.

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1916 B

Relationship of *Equus* to *Pliohippus* suggested by characters of a new species from the Pliocene of California.

Bull. Dept. Geol. Univ. Calif., IX, 525-534, 18 text-figs.

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Merriam, John C.—Continued 1916 C

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Bull. Dept. Geol. Univ. Calif., x, 111-127, 21 text-figs.

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1916 D

Mammalian remains from a late Tertiary formation at Ironside, Oregon.

Bull. Dept. Geol. Univ. Calif., x, 129-135, 3 text-figs.

1916 E

Remarks made on papers presented before Palaeontological Society.

Bull. Geol. Soc. Amer., xxvii, 169, 170, 172.

1916 F

Hipparion-like horses of the Pacific coast and Great Basin provinces (abstract).

Bull. Geol. Soc. Amer., xxvii, 171.

1916 G

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1917 A

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Bull. Dept. Geol. Univ. Calif., x, 421-443, 1 text-fig.

1917 B

Felidae of Rancho La Brea.

Bull. Geol. Soc. Amer., xxviii, 211 (Abstract).

1918 A

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Bull. Dept. Geol. Univ. Calif., x, 523-530, 5 text-figs.

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1918 B

Note on the systematic position of the wolves of the *Canis dirus* group.

Bull. Dept. Geol. Univ. Calif., x, 531-532.

Abstract in Geol. Zentralbl., xxix, 473.

1918 C

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Bull. Dept. Geol. Univ. Calif., x, 535-537, 2 text-figs.

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Merriam, John C.—Continued 1918 D

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1919 A

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Bull. Dept. Geol. Univ. Calif., xi, 437a-437e; 438-583, 253 text-figs.

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Reviews in Amer. Jour. Sci. (4), xlviii, 399; Rev. crit. Paléozool., xxvii, 25.

1921 A

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Bull. Dept. Geol. Univ. Calif., xii, 237-266.

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1921 B

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Proc. Nat. Acad. Sci., vii, 183-185.

1922 A

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1923 A

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Publ. Carnegie Instn. Wash. Year Book No. 21, 398-400.

1924 A

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1924 B

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Science (n.s.), lx, 1-2.

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1927 A

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Bryant 1911 A

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—, and **C. L. Camp** 1916 A

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—, and **Chester Stock** 1921 A

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— 1925 A

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Amer. Naturalist, xliiv, 367-375, 4 text-figs.
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- **1911 A**
A new labyrinthodont from the Kansas Coal Measures.
Proc. U. S. Nat. Mus., xxxix, 489-495, 4 text-figs.
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Jour. Morphol., xxiii, 31-39, pls. i, ii.
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Some recent advances in vertebrate palæontology.
Amer. Naturalist, xlvii, 183-192, 248-256.
- 1913 B
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Amer. Jour. Sci. (4), xxxv, 31-33, 1 fig.
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A list of the described species of fossil Amphibia.
Kansas Univ. Sci. Bull., ix, 13-23.
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The fossil frogs of North America.
Amer. Jour. Sci. (4), xxxviii, 531-536, 2 text-figs.
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A Coal Measures amphibian with an osseous tarsus.
Amer. Jour. Sci. (4), xxxix, 509-512, 2 text-figs.
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- 1915 B
Some methods of studying fossil Amphibia embedded in coal.
Kansas Univ. Sci. Bull., ix, 187-193, pl. L, 3 text-figs.
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- 1915 D
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Abstract in Rev. Géol. et Sci. conn., iv, 1923, 109.
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Science (n.s.), xli, 463-464.
- 1915 F
The migrations and geographic distribution of the fossil Amphibia.
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- 1915 G
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There is a bibliography of 12 titles.
Abstract in Geol. Mag. (6), iii, 35.
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A new fish brain from the Coal Measures of Kansas, with a review of other fossil brains.
Jour. Comp. Neur., xxv, 135-181, 19 figs.
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Jour. Comp. Neur., xxv, 317-328, 7 figs.
There is a bibliography of 10 works.

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Publ. Carnegie Instn. Wash., No. 238, i-x+1-222 pages, pls. i-xxvi, 43 text-figs.
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- 1916 B
Bacteriologic and pathologic evidences in past geologic ages.
Trans. Chicago Pathol. Soc., 1916, 84-88.
- 1916 C
Two caudal vertebræ of a sauro-podous dinosaur exhibiting a pathological lesion.
Amer. Jour. Sci. (4), xli, 530-531, 1 fig.
Abstract in Geol. Zentralbl., xxv, 181.
- 1916 B
The structure and growth of the plesiosaurian propodial.
Jour. Morphol., xxvii, 401-410, pl. 1, 6 text-figs.
The bibliography presents 9 titles.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 109-110.
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- 1916 E
On the sinus paranasales of two early Tertiary mammals.
Jour. Morphol., xxviii, 135-144, 5 figs.
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- 1916 F
The growth of bone in Cretaceous times.
Science (n.s.), xliii, 35-36.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 110.
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- 1916 G
Mesozoic pathology and bacteriology.
Science (n.s.), xliii, 425-426.
- 1917 A
The influence of disease in the extinction of races.
Science (n.s.), xlv, 63-64.
- 1917 B
Studies in paleopathology. I: General consideration of the evidences of pathological conditions found among fossil animals.
Ann. Med. Hist., 1917, 374-393, 20 figs.
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Review of Osborn's *Equidae of the Oligocene, Miocene and Pliocene of North America*.
Science (n.s.), xlviii, 171-172.
- 1918 B
Opisthotonus and allied phenomena among fossil vertebrates.
Amer. Naturalist, lxi, 384-394, 8 figs.
- 1918 C
Palæontological evidence of the antiquity of disease.
Scient. Monthly, vii, 265-281.
- 1918 D
Pathological evidences of disease among ancient races of man and extinct animals.
Surg., Gynecol. Obstet., 1918, 498-510, 45 figs.
- 1918 E
Synthesis of palæontology and medical history.
Science (n.s.), xlviii, 619-620.
- 1919 A
Opisthotonus.
Science (n.s.), l, 275-276.
- 1920 A
Ancient bacteria and the beginning of disease.
Scient. Monthly, xi, 362-364.
- 1920 B
Evolution's most romantic moment.
Scient. Monthly, xi, 464-469, 5 figs.
- 1920 C
The nature of the primitive haversian system.
Anat. Record, xix, 47-50, pl. i.
- 1920 D
Thread molds and bacteria in the Devonian.
Science (n.s.), li, 14-15.
- 1920 E
Concerning the fossilization of blood corpuscles.
Amer. Naturalist, lvi, 460-464, 1 fig.
- 1920 F
Microscopic examination of a fossil fish brain.
Jour. Comp. Neur., xxxii, 329-333, 2 figs.
The bibliography presents 4 titles.
- 1921 A
Osteomyelitis in the Permian.
Science (n.s.), lvi, 333.
- 1922 A
The paleopathology of the parasuchians.
Science (n.s.), lvi, 417.

Moodie, R. L.—Continued 1922 B

The influence of the lateral line system on the peripheral osseous elements of fishes and Amphibia.

Jour. Comp. Neur., xxxiv., 318-335, 5 figs.

The bibliography presents 20 titles.

1922 C

On the endocranial anatomy of some Oligocene and Pleistocene mammals.

Jour. Comp. Neur., xxxiv., 343-371, 25 figs.

Appended is a bibliography of 17 titles.

1923 A

An unusual form of Pliocene pathology.

Amer. Jour. Sci. (5), v, 335-336, 1 fig.

Abstract in Geol. Zentralbl., xxx, 23.

1923 B

Paleopathology. An introduction to the study of ancient evidences of disease.

8vo., 1-567 pages, pls. i-cxvii, figs. 1-49, University Press.

Reviewed in Amer. Jour. Sci. (5), vi, 440-442; Jour. Geol., xxxii, 262.

Abstracts in Rev. crit. Paléozool., xxviii, 65, 1924; Neues Jahrb. Min. Geol. Pal., 1925, i, 290.

1926 A

Studies in paleopathology. XIII: The elements of the haversian system in normal and pathological structures among fossil vertebrates.

Biol. Gen., ii, 63-95, pls. v-xvi, 10 text-figs.

In foot-notes are numerous citations of the literature of the subject.

1926 B

A Cretaceous fish spine.

Amer. Naturalist, lx, 290-293, 2 figs.

1927 A

Vertebral lesions in the sabre-tooth, Pleistocene of California, resembling the so-called *Myositis ossificans progressiva* compared with certain ossifications in the dinosaurs.

Ann. Med. Hist., ix, 91-102, 11 figs.

The bibliography cites 12 articles.

1927 B

Tumors in the Lower Carboniferous. Science (n.s.), lxvi, 541.

1928 A

The Cephalaspidæ.

Science (n.s.), lxvii, 348-349.

Mook, Charles C. 1914 A

The dorsal vertebrae of *Camarasaurus* Cope.

Bull. Amer. Mus. Nat. Hist., xxxiii, 223-227, 3 text-figs.

Brief abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, 331; Nature, London, xcv, 73; Geol. Zentralbl., xxviii, 446.

1914 B

Notes on *Camarasaurus* Cope.

Ann. N. Y. Acad. Sci., xxiv, 19-22, 1 text-fig.

Abstracts in Bull. Geol. Soc. Amer., xxv, 143; Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 331.

1915 A

Origin and distribution of the Morrison formation.

Bull. Geol. Soc. Amer., 315-322, 4 text-figs.

1916 A

A study of the Morrison formation.

Ann. N. Y. Acad. Sci., xvii, 39-191, pl. vi

Presents a list of the vertebrates.

The bibliography occupies pages 172-191.

1917 A

Criteria for the determination of species of the Sauropoda, with description of a new species of *Apatosaurus*.

Bull. Amer. Mus. Nat. Hist., xxxvii, 355-358, 2 text-figs.

Abstract in Geol. Zentralbl., xxviii, 508

1917 B

The fore and hind limbs of *Diplodocus*.

Bull. Amer. Mus. Nat. Hist., xxxvii, 815-819, figs. 1, 2.

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1918 A

The habitat of the sauropod dinosaurs.

Jour. Geol., xxvi, 459-470.

1921 A

Skull characters and affinities of the extinct Florida gavial *Gavialisuchus americana* (Sellards).

Bull. Amer. Mus. Nat. Hist., xlv, 33-41, pls. v-ix, 1 table.

1921 B

Individual and age variations in the skulls of Recent Crocodylia.

Bull. Amer. Mus. Nat. Hist., xlv, 51-66, pls. x-xii, 4 figs.

1921 C

Notes on the postcranial skeleton in the Crocodylia.

Bull. Amer. Mus. Nat. Hist., xlv, 67-100, pls. xiii, xiv, 20 text-figs.

- Mook, Charles C.**—Continued 1921 D
The dermo-supraoccipital bone in the Crocodilia.
Bull. Amer. Mus. Nat. Hist., XLIV, 101-103, 2 figs.
- 1921 E
Allognathosuchus, a new genus of Eocene crocodilians.
Bull. Amer. Mus. Nat. Hist., XLIV, 105-116, pl. xv.
- 1921 F
Description of a skull of a Bridger crocodilian.
Bull. Amer. Mus. Nat. Hist., XLIV, 111-116, pls. xvi, xvii.
- 1921 G
The skull of *Crocodylus acer* Cope.
Bull. Amer. Mus. Nat. Hist., XLIV, 117-121, pls. xviii, xix.
- 1921 H
Skull characters of Recent Crocodilia.
Bull. Amer. Mus. Nat. Hist., XLIV, 123-268 14 text-figs.
- 1923 A
A new species of *Alligator* from the Snake Creek beds.
Amer. Mus. Novit. No. 73, 1-13, 5 figs.
Abstract in Geol. Zentralbl., XXIX, 476.
- 1923 B
Skull characters of *Alligator sinense* Fauvel.
Bull. Amer. Mus., XLVIII, 553-562, 2 figs.
Abstract in Geol. Zentralbl., XXX, 443-444.
- 1924 A
Further notes on the skull characters of *Gavialosuchus americana* (Sellards).
Amer. Mus. Novit., No. 155, 1-2, 1 fig.
- 1925 A
A revision of the Mesozoic Crocodilia of North America.
Bull. Amer. Mus. Nat. Hist., LI, 319-432, pls. iv, v, 63 text-figs.
- 1927 A
The skull characters of *Crocodylus megarhinus* Andrews.
Amer. Mus. Novit., CCLXXXIX, 1-8, 2 figs.
See also W. K. Gregory and C. C. Mook; Osborn and Mook.
- Moore, Clarence** 1905 A
Archæological research in the southern United States.
Internat. Congr. Americanists, XIII, New York, 1902, 27-40.
- Moreau, Laurent J.** 1900 A
L'extinction des espèces animales.
Bull. Soc. Zool. France, XXV, 109-117.
- Moreau, Laurent J.**—Continued 1914 A
La dent des mammifères de la série paléontologique et la dent de l'homme.
Jour. Anat. Physiol. Paris, 1914, 81-91, 9 figs.
- Moreno, F. P.** 1902 A
Account of the discovery [of *Neomylodon*].
Pritchard's Through the heart of Patagonia, pages 301-304.
- Morgan, T. H.** 1903 A
Regeneration of the leg of *Amphiuma means*.
Biol. Bull., V, 293-296, 4 figs.
- Morgan, Wm. Conger, and Marion Clover Tallmon** 1904 A
A fossil egg from Arizona.
Bull. Dept. Geol. Univ. Calif., III, 403-410, pls. XLVni, XLix.
Abstract in Geol. Mag. (5), I, 520.
- Mori, Otto** 1924 A
Über die Entwicklung des Schädel-skelettes des Dornhaies (*Acanthias vulgaris*).
Zetschr. Anat. Entwicklungsges., LXXIII, 389-430, 14 figs.
6 titles are recorded in the bibliography.
- Morita, S.** 1912 A
Über die Ursachen der Richtung und Gestalt der thoracalen Dornfortsätze der Säugetierwirbelsäule.
Anat. Anz., XLII, 1-10, 4 text-figs.
- Morton, Dudley J.** 1924 A
Evolution of the human foot.
Amer. Jour. Phys. Anthropol., VII, 1-52, 25 figs.
The bibliography contains 10 titles.
- 1926 A
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1903 C

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Notes on British dinosaurs. Part I: *Hypsilophodon*.

Geol. Mag. (5), ii, 203-208, 4 text-figs.

Abstracts in Geol. Centralbl., vii, 263; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 159.

1905 B

Notes on British dinosaurs. Part II: *Polacanthus*.

Geol. Mag. (5), ii, 241-250, pl. xii, 8 text-figs.

Abstracts in Geol. Centralbl., vii, 263.

1905 C

Notes on British dinosaurs. Part III: *Streptospondylus*.

Geol. Mag. (5), ii, 289-293, pl. xv.

Abstracts in Rev. crit. Paléozool., x, 18; Jahresber. Anat. Entwickl. (N.F.), xi, pt. 3, 159; Nature, LXXIII, 15.

1905 D

Remarks on the supposed clavicle of the sauropodous dinosaur *Diplodocus*.

Proc. Zool. Soc. Lond., 1905, ii, 289-294, text-figs. 46-49.

Abstracts in Geol. Centralbl., x, 44; Rev. crit. Paléozool., xi, 74.

1906 A

Zur Kenntnis des Genus *Streptospondylus*.

Beitr. Pal. Geol. Oesterr.-Ung., xix, 1906, 59-83, 18 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xii, pt. 3, 162.

Nopcsa, F.—Continued

1907 A

Ideas on the origin of flight.

Proc. Zool. Soc. Lond., 1907, i, 223-236, text-figs. 74-82.

Abstracts in Geol. Centralbl., x, 370; Sci. Progress, ii, 513; Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 282; Amer. Jour. Sci. (4), xxv, 528-529.

1908 A

Zur Kenntnis der fossilen Eidechsen.

Beitr. Pal. Geol. Oesterr.-Ung., xxi, 33-62, 1 plate, 5 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 161.

1911 A

Notes on British dinosaurs. Part IV: *Stegosaurus priscus*, sp. nov.

Geol. Mag. (5), viii, 109-115, text-figs. 1-3; 145-153, text-figs. 4-9.

Abstract in Geol. Centralbl., xvii, 664-665.

1911 B

Omosaurus lennieri, un nouveau dinosaure du Cap. de la Hève.

Bull. Soc. géol. Normandie, xxx, 1-20, pls. i-vii.

1912 A

Notes on British dinosaurs. Part V: *Craterosaurus* (Seeley).

Geol. Mag. (5), ix, 481-484, 2 text-figs.

1914 A

Die Lebensbedingungen der obercretacischen Dinosaurier Siebenbürgens.

Centralbl. Min. Geol. Pal., 1914, 564-574. Abstract in Geol. Zentralbl., xxii, 412.

1915 A

Über Geschlechtsunterschiede bei Dinosauriern.

Centralbl. Min. Geol. Pal., 1915, 385-388, 2 text-figs.

Abstract in Geol. Zentralbl., xxii, 446.

1915 B

Die Dinosaurier der siebenbürgischen Landesteile Ungarns.

Mitt. Jahrb. Ungar. Geol. Reichsanst., xxiii, 1-26, pls. i-iv, 3 text-figs.

1916 A

Zu Körpertemperatur der Pterosaurier.

Centralbl. Min. Geol. Pal., 1916, 418-419. Abstract in Geol. Zentralbl., xxiii, 255.

Nopcsa, F.—Continued**1917 A**

Über Dinosaurier. 1: Notizen über die Systematik der Dinosaurier.

Centralbl. Min. Geol. Pal., 1917, 203-213.

There is a bibliography of 14 titles.

Abstract in Geol. Zentralbl., xxiv, 29.

1917 B

Ueber Dinosaurier. 2: Die Riesenformen unter den Dinosauriern. 3: Über die Pubis der Orthopoden.

Centralbl. Min. Geol. Pal., 1917, 332-351, 11 figs.

The bibliography presents 73 titles.

1918 A

Über Dinosaurier. 4: Neues über Geschlechtsunterschiede bei Orthopoden.

Centralbl. Min. Geol. Pal., 1918, 186-198, 12 figs.

There is a bibliography of 34 titles.

Abstract in Geol. Zentralbl., xxiv, 187

1918 B

Notizen über Dinosaurier. 5: Beiträge zu ihrer Evolution.

Centralbl. Min. Geol. Pal., 1918, 235-246.

1918 C

Leipsanosaurus n. gen. Ein neuer Thyreophore aus der Gosau.

Földt. Közl., xlviii, 324-328, pl. iii.

1921 A

Zur systematischen Stellung von *Poposaurus* (Mehl).

Centralbl. Min. Geol. Pal., 1921, 348.

Abstract in Geol. Zentralbl., xxviii, 283.

1922 A

Bemerkungen zur Systematik der Reptilien.

Palaeont. Zeitschr., v, 107-118.

Abstract in Geol. Zentralbl., xxxii, 117.

1922 B

Neubeschreibung des Trias-Pterosauriers *Tribelesodon*.

Palaeont. Zeitschr., v, 161-181, pls. i, ii, 7 text-figs.

The bibliography presents 11 titles.

Abstracts in Anz. Akad. Wiss. Wien, 1922, No. 18; Geol. Zentralbl., xxxii, 121.

1922 C

On the probable habits of the dinosaur *Struthiomimus*.

Ann. Mag. Nat. Hist. (9), x, 152-155, 1 fig.

1922 D

A case of secondary adaptation in a tortoise.

Ann. Mag. Nat. Hist. (9), x, 155-157.

Nopcsa, F.—Continued**1923 A**

Notes on British dinosaurs, Pt. VI: *Acanthopholis*.

Geol. Mag., LX, 193-199, pls. vii, viii.

Abstracts in Geol. Zentralbl., xxx, 24; 539-540.

1923 B

Vorläufige Notiz über die Pachyostose und Osteosklerose einiger mariner Wirbeltiere.

Anat. Anz., LVI, 353-359.

1923 C

On the origin of flight in birds.

Proc. Zool. Soc. Lond., 1923, 463-477, 7 figs.

The bibliography presents 21 titles.

1923 D

On the geological importance of the primitive reptilian fauna of the uppermost Cretaceous of Hungary; with a description of a new tortoise (*Kallokibotium*).

Quart. Jour. Geol. Soc., LXXIX, 100-116.

The bibliography cites 79 titles.

Abstract in Rev. crit. Paléozoool., xxvii, 210; Neues Jahrb. Min. Geol. Pal., 1925, II, 88-89.

1923 E

Reversible and irreversible evolution; a study based on reptiles.

Proc. Zool. Soc. Lond., 1923, 1045-1059, 2 text-figs.

The bibliography presents 19 titles.

1923 F

Kallokibotium, a primitive amphichelydean tortoise from the uppermost Cretaceous of Hungary.

Palaeont. Hungarica, I, 1-34, pls. i-iv, 5 text-figs.

A bibliography of 74 titles is presented.

1923 G

Eidolosaurus und *Pachyophis*: Zwei neue Neocom-Reptilien.

Palaeontogr., LXV, 96-154, pls. vii, viii.

Appended is a bibliography of 141 titles.

1923 H

Die Familien der Reptilien.

Fortschr. Geol. Palaeont., Heft II, i-iv; 1-210, pls. i-vi.

There are numerous references in the footnotes to the literature pertaining to the subject.

Comment on in Naturwissenschaften, Berlin, 1925, XIII, 437.

1924 A

Über die Namen einiger brasilianischer fossiler Krokodile.

Centralbl. Min. Geol. Pal., 1924, 378.

Abstract in Geol. Zentralbl., xxxiii, 120.

- Nopcsa, F.**—Continued 1924 B
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- 1924 C
On the systematic position of *Sauosternon* and *Tangasaurus*. *S. Afric. Jour. Sci.*, xxi, 206-207.
- 1925 A
Wirbeltier-Reste der Baharije-Stufe (unterstes Cenoman). 5: Die *Symoliophis*-Reste. *Abh. Bayer. Akad.*, xxx, Bd. 4, 1-27, pl. i, 2 text-figs.
- 1925 B
On some reptilian bones from the Eocene of Sokoto. *Geol. Surv. Nigeria*, Occas. Pap. No. 2, 1-16, 1 pl., 1 text-fig.
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- 1925 C
Über die von Professor Stromer im Cenoman Aegyptens entdeckten Reste von *Symoliophis*. *Palaeont. Zeitschr.*, vii, 164-165, 166.
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In the bibliography are 116 titles.
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La grotte du *Glossotherium* (*Neomylodon*) en Patagonie. *Bull. Soc. géol. France* (3), xxviii, 29-32.
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Ueber die Säugetierfossilien des Tarihats, Südamerika, I: *Mastodon andium* Cuv. *Svensk. Vet. Akad. Handl.*, xxxvii, No. 4, 1-30, pls. i-vi. See also *Bull. Geol. Inst. Upsala*, v, 1902.
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- Norman, E. W.** 1926 A
The development of the chondrocranium of the eel (*Anguilla vulgaris*), with observations on the comparative morphology and development of the chondrocranium in bony fishes. *Phil. Trans. Roy. Soc. Lond.*, B, ccxiv, 369-404, 56 figs.
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- Norris, H. W.** 1903 A
The membrane bones in the skull of a young *Amphiuma*. *Proc. Iowa Acad. Sci.*, x, 69-74.
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The cranial nerves of *Amphiuma means*. *Jour. Comp. Neur.*, xviii, 527-559, pls. iv-viii.
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On certain features of the anatomy of *Siren lacertina*. *Anat. Anz.*, xliii, 516-519.
- 1913 B
The cranial nerves of *Siren lacertina*. *Jour. Morphol.*, xxiv, 245-338, 44 figs.
The bibliography occupies pages 336-338.
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Recherches sur la morphologie des membres antérieurs des oiseaux. *Arch. ital. Biol.*, xxii, 232-241.
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Discovery of the horns of an extinct species of ox in Ohio. *Amer. Jour. Sci.* (3), x, 386.
Probably extracted from *Cincinnati Gazette*. (See Smith, H. P., 1887 A, page 20.)
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Über das Parietallauge von *Lacerta agilis* und *Anguis fragilis*. *Biol. Centralbl.*, xxxvii, 364-370, 5 text-figs.
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Untersuchungen über die Struktur des Knochens. *Zeitschr. wiss. Zool.*, xcii, 1-50, pls. i-v, 1 text-fig.
In this paper the author's name is given as Novikov, M. M.

- Nowikoff, M.**—Continued 1910 A
 Untersuchungen über den Bau, die Entwicklung und die Bedeutung des Parietalauges von Sauriern.
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- 1910 B
 Zur Frage über die Paarigkeit der Epiphyse und des Parietalauges der Saurier.
 Biol. Zetschr. Moskau, I, 167.
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- 1912 A
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 Ueber das anatomische Verhältnis zwischen dem Gehörorgane und der Schwimmblase bei den Cyprinoiden.
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 Zur Histogenese der Lederhaut und die Cycloidschuppen der Knochenfische.
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 Anat. Anz., xxxii, 513-532, 14 figs.
 There are numerous references to the papers of other authors
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- 1908 B
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 Les grands mammifères fossiles dans le Yukon et l'Alaska.
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 A synopsis of the genera and species of Cygninae.
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 Anat. Anz., lxi, 161-187, 20 figs.
 The bibliography presents 27 titles.
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Toxochelys gigantea nov. sp.; eine neue Schildkröte aus dem Aptien von Hannover.
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 Die Schildkröten fauna des nordwestdeutschen oberen Jura.
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Bull. S. Dakota Sch. Mines, ix, 1-152, pls i-1, 20 text-figs.
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Note on locality of a fossil fish.
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- 1823 B
Brustgerüste, Schultergerüste, Becken.
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- 1899 K
Fossil vertebrates in the American
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- 1900 A
Abstracts in Geol. Centralbl., II, 89; Anat.
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- 1900 C
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- 1900 F
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- 1900 I
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lement en oeuvre dans l'étude des
vertébrés fossiles des États-Unis
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C. R. Congr. Geol. internat. Paris, VIII,
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tion of *Protorohippus*.
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580, 622, 699-700.
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3, 107-108.

Osborn, H. F.—Continued

1902 B

The four phyla of Oligocene titanotheres.

Bull. Amer. Mus. Nat. Hist., xvi, 91-109, figs. 1-13.

Abstracts in Science (n.s.), xv, 626; Ann. N. Y. Acad. Sci., 1903, xv, 44-45; Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 297-298; Geol. Centralbl., iv, 399; Rev. crit. Paléozool., vii, 7; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 119.

1902 C

American Eocene primates and the supposed rodent family Mixodectidæ.

Bull. Amer. Mus. Nat. Hist., xvi, 169-214, 40 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1904, i, Ref., 290-294; Geol. Centralbl., iv, 475; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 114-115.

1902 D

Homoplasy as a law of latent or potential homology.

Amer. Naturalist, xxxvi, 259-271, 6 text-figs.

Abstracts in Geol. Centralbl., ix, 659; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 84-87.

1902 E

The law of adaptive radiation.

Amer. Naturalist, xxxvi, 353-363, 4 text-figs.

Abstracts in Geol. Centralbl., ix, 659; Jahresber. Anat. Entwickl. (N.F.), viii, pt. 3, 85.

1902 F

The four phyla of titanotheres.

Science (n.s.), xv, 626.

An abstract of Osborn, H. F., 1902 B.

1902 G

Recent zoopaleontology.

Science (n.s.), xv, 355-357, 514.

1902 H

Recent zoopaleontology.

Science (n.s.), xvi, 673-676, 713-715, 749-752.

1902 I

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Contrib. Canad. Pal., iii (4to), pt. ii, 1-21.

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Osborn, H. F.—Continued

1903 A

Ornitholestes hermanni; a new compsognathoid dinosaur from the Upper Jurassic.

Bull. Amer. Mus. Nat. Hist., xix, 459-464, text-figs. 1-3.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, i, Ref., 152; Geol. Centralbl., v, 143; Rev. crit. Paléozool., viii, 81-82; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 167.

1903 B

Glyptotherium texanum, a new glyptodont from the lower Pleistocene of Texas.

Bull. Amer. Mus. Nat. Hist., xix, 491-494, pl. xlin.

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1903 C

The skull of *Creosaurus*.

Bull. Amer. Mus. Nat. Hist., xix, 697-701, 2 text-figs.

Abstracts in Rev. crit. Paléozool., viii, 210; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 167.

1903 D

Recent zoopaleontology.

Science (n.s.), xvii, 157-158, 312-314, 356-357, 673-674.

Abstract in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 154-155. Also in Geol. Centralbl., ix, 636, 637, 660.

1903 E

Evolution of the Proboscidea in North America.

Science (n.s.), xvii, 249.

1903 F

On the primary division of the Reptilia, into two sub-classes, Synapsida and Diapsida.

Science (n.s.), xvii, 275-276.

1903 G

Recent zoopaleontology.

Science (n.s.), xviii, 665-668, 699-702, 835-837.

Abstract in Geol. Centralbl., ix, 659.

1903 H

The reptilian subclasses Diapsida and Synapsida and the early history of the Diaptosauria.

Mem. Amer. Mus. Nat. Hist., i, 449-507, pl. xi, 24 text-figs.

Abstracts in Geol. Centralbl., ix, 661-662; Rev. crit. Paléozool., viii, 84-90; Jahresber. Anat. Entwickl. (N.F.), ix, pt. 3, 154-156.

Osborn, H. F.—Continued 1903 I

On recent models and restorations of a number of extinct animals, with a discussion of their probable habits and mode of life.

Science (n.s.), xviii, 978.

An abstract.

1904 A

An armadillo from the Middle Eocene (Bridger) of North America.

Bull. Amer. Mus. Nat. Hist., xx, 163-165.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 187; Neues Jahrb. Min. Geol. Pal., 1905, II, Ref., 163-165; Rev. crit. Paléozoöl., ix, 3.

1904 B

New oligocene horses.

Bull. Amer. Mus. Nat. Hist., xx, 167-179; pls. iv, v; text-figs. 1-8.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 182; Rev. crit. Paléozoöl., ix, 4.

1904 C

Manus, sacrum, and caudals of Sauropoda.

Bull. Amer. Mus. Nat. Hist., xx, 181-190, 6 text-figs.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 171-172; Rev. crit. Paléozoöl., viii, 210.

1904 D

New Miocene rhinoceroses with revision of known species.

Bull. Amer. Mus. Nat. Hist., xx, 307-326, 21 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, II, Ref., 133-135; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 181; Rev. crit. Paléozoöl., ix, 68.

1904 E

The great Cretaceous fish *Portheus molossus* Cope.

Bull. Amer. Mus. Nat. Hist., xx, 377-381, pl. x, 4 text-figs.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 159; Rev. crit. Paléozoöl., ix, 77.

1904 F

Revised list of casts, models, photographs and restorations of fossil vertebrates.

Bull. Amer. Mus. Nat. Hist., xx, App., 1-52, 8 text-figs.

1904 G

Palaeontological evidence for the original tritubercular theory.

Amer. Jour. Sci. (4), xvii, 321-323, pl. xxi.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 177; Rev. crit. Paléozoöl., ix, 2-3.

Osborn, H. F.—Continued 1904 H

Reclassification of the Reptilia.

Amer. Naturalist, xxxviii, 93-115, 13 text-figs.

Abstracts in Geol. Centralbl., ix, 661; Nature, lxxi, 615; Rev. crit. Paléozoöl., viii, 206-209; Geol. Mag. (5), i, 517.

1904 I

Recent zoopaleontology.

Science (n.s.), xix, 35-36, 271-272.

1904 J

On the position of the bones of the forearm in the *Opisthocoeia* or *Sauropoda*.

Science (n.s.), xix, 255-256.

1904 K

Conclusive paleontological evidence for the tritubercular theory.

Science (n.s.), xix, 256.

1904 L

A reclassification of the Reptilia.

Science (n.s.), xix, 256-257 (abstract).

1904 M

On the primary components of vertebræ and their relations to ribs.

Science (n.s.), xix, 257.

1904 N

The classification of the Reptilia.

Science (n.s.), xix, 307-308.

1904 O

Recent advances in our knowledge of the evolution of the horse.

Proc. Amer. Philos. Soc., xliii, 156-157.

Abstract in Science (n.s.), xix, 717.

1904 P

Teleorhinus browni—a teleosaur in the Fort Benton.

Bull. Amer. Mus. Nat. Hist., xx, 239-240.

Abstracts in Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 169; Rev. crit. Paléozoöl., ix, 71; Jour. Geol., xiii, 184.

1904 Q

Fossil wonders of the West. The dinosaurs of the Bone-Cabin quarry.

Cent. Mag., lxxviii (n.s. xlvii) Sept., 680-694, 16 illustrations.

Abstract in Nature, London, lxxi, 279.

Reprint in Handbook series, No. 5, Amer. Mus. Nat. Hist., 1915, 131-152.

1904 R

The evolution of the horse in America.

Cent. Mag., lxxix (n.s. xlviii), 2-17, with 12 figs.

For a correction see page 317 of same volume.

Osborn, H. F.—Continued 1904 S
Abstracts of papers read at meeting
of National Academy of Sciences.
Scient. Amer., xc, 366.

1905 A
Tyrannosaurus and other Cretaceous
carnivorous dinosaurs.

Bull. Amer. Mus. Nat. Hist., xxi, 259-265,
2 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1907, II, Ref., 492; Geol. Centralbl., xii, 221;
and in Nature, lxxiii, 229-230.

1905 B
Recent discoveries of extinct ani-
mals in the Rocky Mountain region
and their bearings on the present
problems of evolution.

Science (n.s.), xxi, 28.
See Ann. N. Y. Acad. Sci., xvi, 358.

1905 C
The phylogeny and classification of
the Reptilia.

Science (n.s.), xxi, 294-295.

1905 D
Recent zoopaleontology.
Science (n.s.), xxi, 315-316.
Brief abstract in Geol. Centralbl., x, 465.

1905 E
Fossil mammals of Mexico.
Science (n.s.), xxi, 931-932.
Abstracts in Geol. Centralbl., x, 465;
Neues Jahrb. Min. Geol. Pal., 1907, I, Ref.,
126-127.

1905 F
Recent vertebrate paleontology.
Science (n.s.), xxi, 188-189.
Brief abstract in Geol. Centralbl., x, 188-
189.

1905 G
Skull and skeleton of the sauropo-
dous dinosaurs, *Morosaurus* and *Bron-
tosaurus*.

Science (n.s.), xxi, 374-376.

1905 H
Ten years progress in the mam-
malian palaeontology of North Amer-
ica.

Amer. Geologist, xxxvi, 199-229, pl. xii,
7 text-figs.

Noted in Geol. Centralbl., x, 465.

1905 I
Ten years progress in the mam-
malian palaeontology of North Amer-
ica.

Verh. internat. Zool.-Kongr., vi, Bern, 1904,
86-113, pls. i-xv, 7 text-figs.

Résumé in Neues Jahrb. Min. Geol. Pal.,
1907, I, Ref., 454-458.

Osborn, H. F.—Continued 1905 J
Evolution of the horse. Recent dis-
coveries and studies.
Verh. internat. Zool.-Kongr., vi, Bern,
1904, 282.

1905 K
The evolution of the horse.
Rep. Brit. Assoc. Adv. Sci., lxxiv, Cam-
bridge, 1904, 607-608.

1905 L
Western explorations for fossil
vertebrates.
Pop. Sci. Month., lxvii, 561-568, 6 figs.

1905 M
Ichthyosaurs. The evolution of fit-
ness in ichthyosaurs.
Cent. Mag., lxix (n.s. xlvii), 414-422, 6
illustrations

1905 N
The present problems of paleontol-
ogy.
Pop. Sci. Month., lxvi, 226-242.

1905 O
The ideas and terms of modern phi-
losophical anatomy.
Science (n.s.), xxi, 959-961.

1906 A
Tyrannosaurus, Upper Cretaceous
carnivorous dinosaur (2d comm.).
Bull. Amer. Mus. Nat. Hist., xxii, 281-
296, pl. xxxix, 12 text-figs.
Abstracts in Sci. Progress, I, 456; Nature,
London, lxxiv, 416, Rev. crit. Paléozool.,
145-146; Jahresber. Anat. Entwickl. (N.F.),
xii, pt. 3, 163.

1906 B
Recent vertebrate paleontology.
Science (n.s.), xxiv, 55-57.

1906 C
The causes of extinction of Mam-
malia.
Amer. Naturalist, xl, 769-795, 829-859
Abstracts in Geol. Centralbl., xi, 473;
Rev. crit. Paléozool., xi, 207-211

1906 D
The skeleton of *Brontosaurus* and
skull of *Morosaurus*.
Nature, lxxiii, 282-284, 4 text-figs.
Abstracts in Geol. Centralbl., vii, 661; xi,
108-109; Neues Jahrb. Min. Geol. Pal., 1910,
II, Ref., 143.

1906 E
Preface to ["The Arab Horse," by
Spencer Borden].
vii-xiii pages.

Osborn, H. F.—Continued 1906 F
Mountain goat hunting with the camera.

Rep. N. Y. Zool. Soc., x, 217-233, 17 figs.
1907 A

Tertiary mammal horizons of North America.

Bull. Amer. Mus. Nat. Hist., xxiii, 237-253, 3 text-figs.

Reviewed in Amer. Jour. Sci. (4), xxiv, 504-505 Abstracts in Geol. Centralbl., xi, 376, Rev. crit. Paléozool., xi, 211-213; Sci. Progress, ii, 501.

1907 B

A mounted skeleton of the Columbian mammoth (*Elephas columbi*).

Bull. Amer. Mus. Nat. Hist., xxiii, 255-257, 1 text-fig

Brief abstracts in Geol. Centralbl., xi, 379; Sci. Progress, ii, 511; Rev. crit. Paléozool., xi, 219.

1907 C

Points of the skeleton of the Arab horse.

Bull. Amer. Mus. Nat. Hist., xxiii, 259-263, 3 text-figs.

Reviewed in Amer. Jour. Sci. (4), xxiv, 380-381.

1907 D

A mounted skeleton of *Naosaurus*, a pelycosaur from the Permian of Texas.

Bull. Amer. Mus. Nat. Hist., xxiii, 265-270, pls. ix, x, 3 text-figs.

Abstracts in Sci. Progress, ii, 519; Rev. crit. Paléozool., xi, 226, Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 165-167.

1907 E

Evolution as it appears to the paleontologist.

Science (n.s.), xxvi, 744-749

Abstract in Rev. crit. Paléozool., 13, 150.

1907 F

A paleontological trip to northwestern Nebraska.

Science (n.s.), xxvi, 871-872.

1907 G

Evolution of mammalian molar teeth to and from the triangular type.

8vo, 1-250, 215 text-figs Edited by W. K. Gregory.

Abstracts in Science (n.s.), xxvii, 341-342; Anat. Record, ii, 221-225; Rev. crit. Paléozool., xii, 223; Amer. Jour. Sci. (4), xxv, 264; Jahresber. Anat. Entwickl. (N.F.), xiv, pt. 3, 161.

1907 H

The reclassification of the Mammalia.

Ann. N. Y. Acad. Sci., xvii, 611-613.

Osborn, H. F.—Continued 1907 I
Foreword to the monographs on vertebrate paleontology.

U. S. Geol. Surv. Mon., xlix, pages xiii-xv.

1907 J

Explorations of John Bell Hatcher for the paleontological monographs of the United States Geological Survey, together with a statement of his contributions to American geology and paleontology. A biographical sketch of John Bell Hatcher.

U. S. Geol. Surv. Mon., xlix, pages xvii-xxvi.

This sketch contains a list of Hatcher's scientific papers.

1907 K

Hunting the ancestral elephant in the Fayûm Desert.

Cent. Mag., lxxiv (n.s. lii), 815-835, 20 illustrations.

Brief abstract in Geol. Centralbl., xi, 28.

Abstract in Sci. Progress, ii, 503.

1908 A

New or little known titanotheres from the Eocene and Oligocene.

Bull. Amer. Mus. Nat. Hist., xxiv, 599-617, 21 text-figs

Abstracts in Geol. Centralbl., xiii, 395-396, Rev. crit. Paléozool., xiii, 143; Amer. Jour. Sci. (4), xxix, 90.

1908 B

The four inseparable factors of evolution. Theory of their distinct and combined action in the transformation of the titanotheres, an extinct family of hoofed animals in the order of Perissodactyla.

Science (n.s.), xxvii, 148-150.

Abstract in Rev. crit. Paléozool., xiii, 150.

1908 C

Dolicocephaly and brachycephaly in titanotheres.

Science (n.s.), xxvii, 255.

1908 D

Coincident evolution through rectigradations and fluctuations.

Science (n.s.), xxvii, 749-752, 3 text-figs.

Abstract in Rev. crit. Paléozool., xiii, 150.

1909 A

Communications and remarks before American Society of Vertebrate Paleontologists.

Science (n.s.), xxix, 197-198.

Osborn, H. F.—Continued 1909 B

The epidermis of an iguanodont dinosaur.

Science (n.s.), xxix, 793-795.

Abstract in Neues Jahrb. Min. Geol. Pal., 1910, II, Ref., 298.

1909 C

The upper Cretaceous iguanodont dinosaurs.

Nature, LXXXI, 160-162, 2 figs. See also note on pages 194-195.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 321; Geol. Centralbl., XIII, 438.

1909 D

Cenozoic mammal horizons of western North America.

Bull. U. S. Geol. Surv., CCCLXI, 1-90, 3 pls. and 15 text-figs.

A bibliography occupies pages 9-18.

Abstracts in Amer. Jour. Sci. (4), XXIX, 88-89; Geol. Centralbl., XIII, 393-394; Rev. crit. Paléozool., XIII, 147-149; Jour. Geol., XIX, 95.

1909 E

The feeding habits of *Mærittherium* and *Palæomastodon*.

Nature, LXXXI, 139-140, 2 figs.

1910 A

Correlation of the Cenozoic through its mammalian life.

Jour. Geol., XVIII, 201-215, 4 figs.

Reprinted in Bailey Willis and R. D. Salisbury's "Outlines of Geologic History," Univ. of Chicago Press, 1910, pages 251 to 264.

Abstract in Geol. Centralbl., XVI, 49.

1910 B

The age of mammals in Europe, Asia and North America.

New York, The Macmillan Co., 8vo., i-xvii+1-635 pages, with 220 figs. Pages 515-563 form an appendix in which is presented a classification of the Mammalia.

Reviews in Amer. Jour. Sci. (4), XXXI, 150-151, Amer. Mus. Jour., XI, 1911, 65-67; Sci. Progress, V, 660; Bull. Amer. Geogr. Soc., XLIII, 541; Rev. crit. Paléozool., XV, pages i-xii; Geol. Centralbl., XIX, 393; Nature, LXXXVIII, 135-136; Amer. Mus. Jour., XI, 65; Bull. Amer. Geogr. Soc., XLIII, 541.

Abstract in Winge, H., 1923 A, p. 185.

1910 C

Paleontologic evidences of adaptive radiation.

Pop. Sci. Month., LXXVII, 77-81.

Osborn, H. F.—Continued 1910 D

Evolution as it appears to the paleontologist.

Proc. internat. Zool. Congr., VII, Boston, 1907, 733-739.

Issued also as a reprint, 1-7; also same as Osborn, H. F., 1907 E.

1911 A

Biological conclusions drawn from the study of the titanotheres.

Science (n.s.), XXXIII, 825-828.

1911 B

A dinosaur mummy.

Amer. Mus. Jour., XI, 7-11, 4 figs.

Abstracts in Geol. Centralbl., 42; Nature, LXXXV, 520; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 209; Sci. Progress, VI, 568, fig.

1911 C

Palæontology.

Encyclop. Brit., ed. 11, XX, 559-591, 10 figs.

1912 A

Craniometry of the Equidæ.

Mem. Amer. Mus. Nat. Hist. (n.s.), I, pt. III, 55-100, 17 text-figs.

Abstract in Geol. Centralbl., XIX, 651; Rev. crit. Paléozool., XVII, 203.

1912 B

The continuous origin of certain unit characters as observed by a paleontologist.

Amer. Naturalist, XLIV, 185-206, 249-278, 8 text-figs.

1912 C

Phylogeny and ontogeny of the horns of mammals.

Science (n.s.), XXXV, 595-596.

1912 D

Skull measurements in man and the hoofed mammals.

Science (n.s.), XXXV, 596.

1912 E

Tetraplasy, a law of the four inseparable factors of evolution.

Proc. Acad. Nat. Sci. Phila., LXIV, 144-146.

1912 F

Tetraplasy, the law of the four inseparable factors of evolution.

Jour. Acad. Nat. Sci. Phila. (2), XV, 277-309.

Abstract in Rev. crit. Paléozool., XVII, 195.

Osborn, H. F.—Continued

1912 G

Symposium on ten years progress in vertebrate paleontology. Correlation and paleogeography.

Bull. Geol. Soc. Amer., xxiii, 232-256, 11 text-figs.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Williston and Sinclair.

1912 H

Evolution as it appears to the paleontologist.

Proc. internat. Zool. Congr., vii, Boston, 1907, 733-739

1912 I

A means of estimating the age of the mastodon and other Proboscidea.

Proc. internat. Zool. Congr., vii, Boston, 1907, 782-784, figs. 1-3.

1912 J

Crania of *Tyrannosaurus* and *Allosaurus*.

Mem. Amer. Mus. Nat. Hist. (n.s.), i, 1-30, pls 1-iv, 27 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, i, 335; Geol. Zentralbl., xix, 445; Sci. Progress, viii, 14; Rev. crit. Paléozoöl., xvii, 130, Jahresber. Anat. Entwickl. (N.F.), xviii, pt 3, 210; Nature, xc, 313

1912 K

Integument of the iguanodont dinosaur *Trachodon*.

Mem. Amer. Mus. Nat. Hist. (n.s.), i, 33-54, pls v-x, 13 text-figs.

For abstracts see Neues Jahrb. Min. Geol. Pal., 1914, i, Ref., 334-335; Geol. Zentralbl., xix, 445-446.

1912 L

The continuous origin of certain unit characters as observed by a paleontologist.

Harvey Lect., ser. 1911-1912, 153-204, 8 figs.

Review in Geol. Mag. (6), i, 125-126.

1913 A

Tyrannosaurus, restoration and model of the skeleton.

Bull. Amer. Mus. Nat. Hist., xxxii, 91-92, pls. iv-vi.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, ii, Ref., 468; Rev. crit. Paléozoöl., xxi, 47; Geol. Zentralbl., xxi, 265.

Osborn, H. F.—Continued

1913 B

Eomoropus, an American Eocene chalicotheres.

Bull. Amer. Mus. Nat. Hist., xxxii, 261-274, 11 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 140; Rev. crit. Paléozoöl., xix, 1; xxi, 48; Geol. Zentralbl., xxi, 236; Nature, xciii, 333.

1913 C

Lower Eocene titanotheres. Genera *Lambdotherium*, *Eotitanops*.

Bull. Amer. Mus. Nat. Hist., xxxii, 407-415, 9 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 140; Sci. Progress, viii, 635; Rev. crit. Paléozoöl., xix, 6, 101; xxi, 50; Geol. Zentralbl., xxi, 234.

1913 D

The skull of *Bathyopsis*, Wind River Uintathere.

Bull. Amer. Mus. Nat. Hist., xxxii, 417-420, pls. lxiv-lxvi, 4 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1915, i, Ref., 141; Sci. Progress, viii, 635; Rev. crit. Paléozoöl., xix, 1, 101, xxi, 50; Geol. Zentralbl., xxi, 266; Nature, xcii, 514

1914 A

Close of the Cretaceous and opening of Eocene time in North America.

Bull. Geol. Soc. Amer., xxv, 321-323.

1914 B

Recent results in the phylogeny of the titanotheres.

Bull. Geol. Soc. Amer., xxv, 403-405, 1 text-fig.

A brief abstract is found on page 137 of the same volume. Abstract in Neues Jahrb. Min. Geol. Pal., 1919, Ref., 217-218.

1914 C

New methods of restoring *Eotitanops* and *Brontotherium*.

Bull. Geol. Soc. Amer., xxv, 406, 1 text-fig.

1914 D

Restoration of the world series of elephants and mastodons.

Bull. Geol. Soc. Amer., xxv, 407-410, 2 text-figs.

1914 E

Rectigradations and allometrons in relation to the conceptions of the "mutations of Waagen," of species, genera, and phyla.

Bull. Geol. Soc. Amer., xxv, 411-416, 3 tables.

- Osborn, H. F.—Continued 1915 A**
 Close of Jurassic and opening of Cretaceous time in North America.
 Bull. Geol. Soc. Amer., xxvi, 295-302, 1 text-fig.
- **1915 B**
 Origin of single characters as observed in fossil and living animals and plants.
 Amer. Naturalist, xlix, 193-240, 10 text-figs.
 Abstracts in Nature, xcvi, 550-551; Rev. crit. Paléozoöl., xxi, 1.
- **1915 C**
 Review of the Pleistocene of Europe, Asia, and Africa.
 Ann. N. Y. Acad. Sci., xxvi, 215-315.
- **1915 D**
 The origin of new adaptive characters.
 Nature, xcvi, 284-285.
 Followed by a response on the part of the reviewer.
- **1915 E**
 The dinosaurs of the Bone Cabin quarry.
 Amer. Mus. Nat. Hist. Handbook No. 5, 131-152, with figures.
- **1916 A**
 Two new Oligocene titanotheres.
 Bull. Amer. Mus. Nat. Hist., xxxv, 721-723, 2 text-figs.
- **1916 B**
 Men of the Old Stone age; their environment, life and art. Illustrations by Upper Palaeolithic artists and Charles R. Knight, Erwin S. Christman, and others.
 Second edition. 8vo., i-xxvii+1-545 pages, 8 plates, 268 text-figs.
 Pages 513-532 are the bibliography.
 Reviews in L'Anthrop. Paris, xxviii, 1917, 427-430, Nature, xcvi, 45.
- **1916 C**
 Additional characters of *Tyrannosaurus* and *Ornithomimus* (Abstract).
 Bull. Geol. Soc. Amer., xxvii, 150-151.
- **1916 D**
 Pelvis and sacrum of *Camarasaurus* (Abstract).
 Bull. Geol. Soc. Amer., xxvii, 151.
- **1916 E**
 The origin and evolution of life upon the earth.
 Scient. Monthly, iii, 5-22, 170-190, 289-307, 313-334, 502-513, 601-614, with 25 figs.
 Pages 189, 190, 306, 307, 333, 334 are the bibliography.
- Osborn, H. F.—Continued 1917 A**
 Skeletal adaptations of *Ornitholestes*, *Struthiomimus*, *Tyrannosaurus*.
 Bull. Amer. Mus. Nat. Hist., xxxv, 733-771, pls. xxiv-xxvii, 23 text-figs.
 Abstracts in Bull. Geol. Soc. Amer., xxviii, 215; Rev. crit. Paléozoöl., xxiv, 145; Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 255-256; Geol. Zentralbl., xxviii, 507; Sci. Progress, xii, 422.
- **1917 B**
 The origin and evolution of life. On the theory of action, reaction and interaction of energy.
 8vo., i-xxxii+1-322 pages, 136 illustrations.
 Published in part in Scient. Monthly, iii, 1916, 5-22, 170-190, 289-307, 313-334, 502-513, 601-614; abstract in Amer. Jour. Sci. (4), xlv, 77.
 Reviewed in Amer. Mus. Jour., xviii, 193-199; Science, xlvii, 472-474; Jour. Geol., xxvi, 283-285; Nature, ciii, 201.
- **1917 C**
 The "ostrich" dinosaur and the "tyrant" dinosaur.
 Amer. Mus. Jour., xvii, 5-13, 10 illustrations.
 Note on in Nature, xcix, 213.
- **1917 D**
 Heritage and habitus.
 Science (n.s.), xlii, 660-661.
 Abstract in Rev. crit. Paléozoöl., xxii, 109.
- **1918 A**
 Equidae of the Oligocene, Miocene, and Pliocene of North America; iconographic type revision.
 Mem. Amer. Mus. Nat. Hist. (n.s.), ii, 1-330, pls. i-xiv, 173 text-figs.
 Reviewed in Science (n.s.), xlviii, 171; Rev. crit. Paléozoöl., xxii, 55-57; Amer. Jour. Sci. (4), xlv, 770-771; Nat. Hist., xix, 733; Geol. Mag. (6), v, 518-519; ibid., lvii, 1920, 128-130.
 Abstract in Geol. Zentralbl., xxvii, 184; Sci. Progress, xiv, 241.
- **1918 B**
 Observations on the skeletons of *Moropus cooki* in the American Museum.
 Bull. Geol. Soc. Amer., xxix, 131-132.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 113.
 Review in Rev. crit. Paléozoöl., xxvii, 31.
- **1918 C**
 A long-jawed mastodon skeleton from South Dakota and phylogeny of the Proboscidea.
 Bull. Geol. Soc. Amer., xxix, 133-137, with a phylogenetic table.
 Abstract in Rev. Géol. et Sci. conn., iv, 1923, 114.

Osborn, H. F.—Continued

Samuel Wendell Williston.
Jour. Geol., xxvi, 673-689.

1919 A

Memorial of Samuel Wendell Williston.
Bull. Geol. Soc. Amer., xxx, 66-76, portrait.

1919 B

New titanotheres of the Huerfano.
Bull. Amer. Mus. Nat. Hist., xli, 557-569, 7 figs.
 Abstract in *Rev. Géol. et Sci. conn.*, 1923, 111.
 Review in *Rev. crit. Paléozool.*, xxvii, 29.

1919 C

Seventeen skeletons of *Moropus*; probable habits of this animal.
Proc. Nat. Acad. Sci., v, 250-252, 1 fig.
 Abstract in *Rev. Géol. et Sci. conn.*, iv, 1923, 114; nature, cvi, 252.
 Review in *Rev. crit. Paléozool.*, xxvii, 32.

1919 D

Palæomastodon, the ancestor of the long-jawed mastodons only.
Proc. Nat. Acad. Sci., v, 265-266, with 1 fig.
 Abstracts in *Rev. Géol. et Sci. conn.*, iv, 1923, 115; Nature, cvi, 252.

1920 A

The hall of the age of man in the American Museum.
Nat. Hist., xx, 228-246, with 14 illustrations.

1921 A

The evolution, phylogeny, and classification of the Proboscidea.
Amer. Mus. Novit., i, 1-15, 15 illustrations.
 Abstracts in *Rev. Géol. et Sci. conn.*, iv, 1923, 112; *Sci. Progress*, xvi, 214.
 Review in *Rev. crit. Paléozool.*, xxvii, 29.

1921 B

First appearance of the true mastodon in America.
Amer. Mus. Novit., x, 1-6, 2 figs.
 Abstracts in *Rev. Géol. et Sci. conn.*, iv, 1923, 117; *Sci. Progress*, xvi, 214.
 Review in *Rev. crit. Paléozool.*, xxvii, 34.

- 1921 C

The first appearance of the true mastodon in America.
Science (n.s.), liv, 108.
 Abstract in *Rev. Géol. et Sci. conn.*, iv, 1923, 115-116.

Osborn, H. F.—Continued

1921 D

Resemblances and contrasts between zoologic and palæontologic research in mammalogy. Desirability of uniform standards and systems in classification, in description, in measurement, in reasoning.
Jour. Mamm., ii, 1-11, with figs. 1, 2.

1921 E

Adaptive radiation and classification of the Proboscidea.
Proc. Nat. Acad. Sci., vii, 231-234, 1 diagram.
 Review in *Rev. crit. Paléozool.*, xxvii, 79.

1922 A

Hesperopithecus, the first anthropoid primate found in America.
Amer. Mus. Novit., xxxvii, 1-5, 3 figs.
 Abstracts in *Rev. Géol. et Sci. conn.*, v, 110; *Rev. crit. Paléozool.*, xxviii, 5, 1924; *Geol. Zentralbl.*, xxix, 125.

1922 B

Species of American Pleistocene mammoths. *Elephas jeffersonii*, new species.
Amer. Mus. Novit., No. 41, 1-16, 12 figs.
 Abstracts in *Geol. Zentralbl.*, xxviii, 375; *Neues Jahrb. Min. Geol. Pal.*, 1923, i, 325.

1922 C

Hesperopithecus, the first anthropoid primate found in America.
Science (n.s.), lv, 463-465.
 The same as Osborn, H. F., 1922 A, but without figures. Abstract in *Amer. Jour. Sci. (4)*, iii, 478.
 Review in *Rev. crit. Paléozool.*, xxviii, 5.

1922 D

Proving Asia the mother of the continents.
Asia, xxii, 721-724, 5 figs.

1922 E

Hesperopithecus, the anthropoid primate of western Nebraska.
 Nature, cx, 281-283, 2 figs.

1922 F

Dibelodon edensis (Frick) of Southern California, *Miomastodon* of the Middle Miocene, new genus.
Amer. Mus. Novit., xlix, 1-4, 1 fig.
 Abstract in *Rev. crit. Paléozool.*, xxvii, 216.

1922 G

Migrations and affinities of the fossil proboscideans of North and South America and Africa.
Amer. Naturalist, lvi, 448-455.

- Osborn, H. F.—Continued** 1922 H
Pliocene (Tertiary) and early Pleistocene (Quaternary) Mammalia of East Anglia, Great Britain, in relation to the appearance of man.
Geol. Mag., LX, 433-441.
Contains lists of fossil vertebrates by A. C. Savin.
Abstract in Rev. crit. Paléozoöl., xxvii, 219.
- 1923 A
Mastodons of the Hudson Highlands.
Nat. Hist., xxiii, 3-24, with numerous illustrations.
- 1923 B
Titanotheres and lophiodonts in Mongolia.
Amer. Mus. Novit., xci, 1-5, 2 figs.
- 1923 C
A new genus and species of Ceratopsia from New Mexico, *Pentaceratops sternbergi*.
Amer. Mus. Novit., xciii, 1-3, 1 fig.
Abstracts in Rev. crit. Paléozoöl., xxviii, 102, 1924; Geol. Zentralbl., xxx, 447.
- 1923 D
Two Lower Cretaceous dinosaurs of Mongolia.
Amer. Mus. Novit., xc, 1-10, 5 figs.
- 1923 E
New subfamily generic and specific stages in the evolution of the Proboscidea.
Amer. Mus. Novit., xcix, 1-4.
- 1923 F
The extinct giant rhinoceros *Baluchitherium* of western and central Asia.
Nat. Hist., xxiii, 209-228, with illustrations.
- 1923 G
Cadurcotherium from Mongolia.
Amer. Mus. Novit., xcii, 1-2.
- 1924 A
Joseph Leidy, founder of vertebrate paleontology in America.
Science (n.s.), lxx, 173-176.
- 1924 B
Psittacosaurus and *Protiguanodon*: Two Lower Cretaceous iguanodonts from Mongolia.
Amer. Mus. Novit., cxxvii, 1-16, 9 figs.
- 1924 C
Three new Theropoda, *Protoceratops* zone, central Mongolia.
Amer. Mus. Novit., cxliv, 1-12, figs. 1-8
- Osborn, H. F.—Continued** 1924 D
Eudinoceras, Upper Eocene amblypod of Mongolia.
Amer. Mus. Novit., cxlv, 1-5, 2 figs.
- 1924 E
Andrewsarchus, giant mesonychid of Mongolia.
Amer. Mus. Novit., cxlvi, 1-5, 3 figs.
- 1924 F
Serridentinus and *Baluchitherium*, Loh formation, Mongolia.
Amer. Mus. Novit., cxlviii, 1-5, 2 figs.
- 1924 G
Parelephas in relation to phyla and genera of the family Elephantidae.
Amer. Mus. Novit., cxli, 1-7, 2 figs.
- 1924 H
Additional generic and specific stages in the evolution of the Proboscidea.
Amer. Mus. Novit., cxlv, 1-5, 2 figs.
- 1924 I
Sauropoda and Theropoda of the Lower Cretaceous of Mongolia.
Amer. Mus. Novit., cxxviii, 1-7, 7 figs.
- 1924 J
Factors in the evolution and phylogeny of the Proboscidea.
Anat. Record, xxix, 114.
- 1924 K
Asiatic center of mammalian dispersion.
Pan-Am. Geol., xli, 271-275.
- 1924 L
The discovery of an unknown continent.
Nat. Hist., xxiv, 133-149, 11 illustrations.
- 1925 A
The elephants and mastodons arrive in America.
Nat. Hist., xxv, 3-23, 18 figs.
- 1925 B
Final conclusions on the evolution, phylogeny, and classification of the Proboscidea.
Proc. Amer. Philos. Soc., lxiv, 17-35, 3 figs.
- 1925 C
The origin of species. II: Distinctions between rectigradations and allometrons.
Proc. Nat. Acad. Sci., xi, art. 12, 749-752.

- Osborn, H. F.**—Continued 1925 D
Mammals and birds of the California tar pools, Rancho La Brea and McKittrick.
Nat. Hist., xxv, 527-543, colored plate, 13 text-figs.
Reviewed in Science (n.s.), LXIV, 426.
- 1925 E
Upper Eocene and Lower Oligocene titanotheres of Mongolia.
Amer. Mus. Novit., ccc, 1-12.
- 1925 F
The origin of species as revealed by vertebrate palæontology.
Nature, cxv, 925-926, 961-963.
- 1926 A
The origin of species. 1859-1925.
Scient. Monthly, xxii, 185-192.
Published in Yale Mus. Bull., vol. i, No. 1.
- 1926 B
Additional new genera and species of the mastodontoid Proboscidea.
Amer. Mus. Novit., ccxxxviii, 1-16, 12 figs.
The bibliography includes 9 titles.
- 1926 C
The problem of the origin of species as it appeared to Darwin in 1859 and as it appears to us today.
Science (n.s.), LXIV, 337-341.
- 1927 A
Recent discoveries relating to the origin and antiquity of man.
Science (n.s.), LXV, 481-488.
- , and H. E. Anthony 1922 A
Close of the age of the mammals.
Jour. Mamm., iii, 219-237, 6 figs. Followed by a discussion by prominent mammalogists.
The bibliography presents 15 titles.
- , and Walter Granger 1901 A
Fore and hind limbs of *Sauropoda* from the Bone Cabin quarry.
Bull. Amer. Mus. Nat. Hist., xiv, 199-208, 6 figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1903, i, Ref., 157-158; Geol. Centralbl., ii, 763; Rev. crit. Paléozoöl., vii, 14.
- , and W. D. Matthew 1909 A
Geological correlation through vertebrate palæontology by international co-operation.
Ann. N. Y. Acad. Sci., xix, 41-44.
- Osborn, H. F., and C. C. Mook** 1917 A
Skeleton and restoration of *Camarasaurus*.
Bull. Geol. Soc. Amer., xxviii, 215 (Abstract).
- 1919 A
Characters and restoration of the sauropod genus *Camarasaurus* Cope.
Proc. Amer. Philos. Soc., LVIII, 386-396, pl. 1, 3 text-figs.
Abstract in Rev. Géol. et Sci. conn., iv, 1923, 110-111; Nature, cvi, 252.
Review in Rev. crit. Paléozoöl., xxvii, 28.
- 1920 A
Reconstruction of the skeleton of the sauropod dinosaur *Camarasaurus* Cope (*Morosaurus* Marsh).
Proc. Nat. Acad. Sci., vi, 15.
Abstract in Geol. Zentralbl., xxv, 540.
- 1921 A
Camarasaurus, *Amphicoelias*, and other sauropods of Cope.
Mem. Amer. Mus. Nat. Hist. (n.s.), iii, 247-287, pls. ix-xxxv, 127 text-figs.
There is a bibliography of 28 titles.
Review in Rev. crit. Paléozoöl., xxvii, 151.
- Osburn, Raymond C.** 1903 A
Adaptation to aquatic, arboreal, fossorial and cursorial habits in mammals.
Amer. Naturalist, xxxvii, 651-665.
Notice in Neues Jahrb. Min. Geol. Pal., 1906, i, Ref., 134-136.
- 1906 A
Adaptive modifications of the limb skeleton in aquatic reptiles and mammals.
Ann. N. Y. Acad. Sci., xvi, 447-482, pls. vii-ix.
- 1906 B
The function of the fins of fishes.
Science (n.s.), xxiii, 585-587.
See also Bull. N. Y. Zool. Soc. No. 25, 347-348.
- 1907 A
The origin of vertebrate limbs. Recent evidence upon this problem from studies on primitive sharks.
Ann. N. Y. Acad. Sci., xvii, 415-436.
- 1907 B
Observations on the origin of the paired limbs of vertebrates.
Amer. Jour. Anat., vii, 171-194, pls. i-v.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xiii, pt. 3, 117-119.

- Osgood, W. H.** 1900 A
Revision of the pocket mice of the genus *Perognathus*.
N. A. Fauna, No. XVIII, 1-72, pls. i-iv, 15 text-figs.
Reviewed in Science (n.s.), xxx, 119.
- 1905 A
Scaphoceros tyrrelli, an extinct ruminant from the Klondike gravels.
Smithson. Misc. Coll., XLVIII, 173-183, pls. xxv-xlu.
Abstract in Rev. crit. Paléozool., 13, 74.
- 1905 B
Mastodon remains in the Yukon Valley.
Proc. Biol. Soc. Wash., XVIII, 254-255.
- 1905 C
An extinct ruminant related to the musk-ox.
Science (n.s.), XXI, 788.
- 1905 D
Symbos, a substitute for *Scaphoceros*.
Proc. Biol. Soc. Wash., XVIII, 223-224.
- 1907 A
A specimen of *Bison occidentalis* from northwest Canada.
Proc. Biol. Soc. Wash., XX, 65.
- 1909 A
Revision of the mice of the American genus *Peromyscus*.
N. A. Fauna, No. XXVIII, 1-285, pls. i-viii, 12 text-figs.
Reviewed in Science (n.s.), xxx, 119-121;
Amer. Naturalist, XLIII, 633-639.
- 1913 A
The name of the Rocky Mountain sheep.
Proc. Biol. Soc. Wash., XXVI, 57-62.
- Osmont, Vance C.** 1904 A
A geological section of the coast ranges north of the Bay of San Francisco.
Bull. Dept. Geol. Univ. Calif., LV, 39-87, pls. vi, vii.
- Oswald, Ferdinand** 1851 A
Ueber einen Fund von siebenzehn Zähnen des *Ptychodus latissimus* in einer Plänerkalkgrube bei Teplitz.
Zeitschr. deutsch. Geol. Ges., III, 531-535.
- Oswald, Felix** 1909 A
The degeneration of armour in animals.
Sci. Progress, 122-134, 23 illustrations.
Brief extract in Nature, LXXXI, 167.
- 1911 A
The sudden origin of new types.
Sci. Progress, v, 396-430, 20 text-figs.
- Otto, Hans** 1908 A
Die Beschuppung der Brevilinguier und Ascalaboten.
Jena. Zeitschr. Naturwiss., XLIV (XXXVII), 193-252, pl. ix, 28 text-figs.
Appended is a bibliography of 27 titles.
- Owen, D. D.** 1856 A
Letter to Joseph Leidy regarding bones of *Megalonyx* found at Henderson, Ky.
Rep. Geol. Surv. Kentucky, I, 23.
- 1857 B
Mammoth bones, etc., at Eminence, Henry County [Kentucky].
Rep. Geol. Surv. Kentucky, III, 100.
- Owen, Luella A.** 1926 A
Later studies on the loess.
Pan-Amer. Geol., XLV, 377-382.
- Owen, R.** 1839 E
A description of Viscount Cole's specimen of *Plesiosaurus macrocephalus*.
Ann. Nat. Hist., II, 64-68.
- 1839 F
Description d'une dent et d'une portion de squelette du *Glyptodon*, grand quadrupède de l'ordre des édentés, auquel appartient l'armure osseuse tessellée figurée par M. Clift dans son mémoire sur les restes du mégathérium.
Ann. Sci. nat. (2), XII, 156-164.
Reprinted from Proc. Geol. Soc. Lond. 27, Feb. 1839.
- 1839 G
Recherches sur la structure et la formation des dents des squaloides, et application des faits observés à une nouvelle théorie du développement des dents.
Ann. Sci. Nat. (2), XII, 209-220, pl. ix.
Reprinted in Foronp's Neue Notizen, XVII, 1841, 84-87, figs. See also C. R. Acad. Paris, Dec. 16, 1839; Foronp's Notizen, XIII, 81-85.
- 1839 H
Sur la structure microscopique et le développement des dents des poissons gymnodontes.
Ann. Sci. Nat. (2), XII, 347-352.
- 1840 H
Sur la structure intime et le développement des dents poissons gymnodontes.
C. R. Acad. Sci. Paris, x, 74-78.

Owen, R.—Continued 1840 I

A description of some of the soft part, with the integument of the hind-fin, of the *Ichthyosaurus*, indicating the shape of the fin when recent.

Proc. Geol. Soc. Lond., III, 157-158.

See also Froriep's Notizen, XVI, 1849, cols 199-200.

1841 G

Outlines of a classification of the Marsupialia.

Trans. Zool. Soc. Lond., II, 315-333.

1841 H

On the osteology of the Marsupialia.

Trans. Zool. Soc. Lond., II, 379-408, pls lxviii-lxxi.

1842 F

On British fossil reptiles.

Edinb. New Philos. Jour., XXXIII, 65-88.

Reprinted from the report of the Plymouth meeting, Brit. Assoc. Adv. Sci., 1841, 191.

1842 G

Notes on the anatomy of the Nubian giraffe.

Trans. Zool. Soc. Lond., II, 217-248, pls xl-xliv.

Osseous system on pages 234-239.

1843 C

Zoological summary of the extinct and living animals of the order Edentata.

Edinb. New Philos. Jour., XXXV, 353-361.

1843 D

Description of the fossil tympanic bones referable to four distinct species of *Balæna*.

Proc. Geol. Soc. Lond., IV, 283-286, 1 fig.

1844 B

Description of a fossil molar tooth of a mastodon discovered by Count Strzlecki in Australia.

Ann. Mag. Nat. Hist. (1), XIV, 268-271.

Describes *Mastodon australis*, on a specimen now believed to have been found in South America or Mexico.

1844 C

Characters of a new species of axolotl.

Ann. Mag. Nat. Hist. (1), XIV, 23, 1 fig.

1845 D

Abstracts in Edinb. New Philos. Jour., XXXIX, 334-339; Quart. Jour. Geol. Soc., I, 318-322.

1845 E

Sur la classification et les analogies des dents molaires des carnivores.

Ann. Sci. Nat. (3), III, 116-128.

Owen, R.—Continued 1845 F

Appendix to Professor Henslow's paper, consisting of a description of the fossil tympanic bones referable to 4 distinct species of *Balæna*.

Geol. Mag., I, 37-40, 1 fig.

1846 E

Lectures on the comparative anatomy and physiology of the vertebrate animals. Pt. I: Fishes.

8vo, i-xi+1-304 pages, 81 figs.

The bibliography presents 138 titles.

1848 B

The archetype and homologies of the vertebrate skeleton.

8vo, London, i-viii+1-203 pages 2 pls, 3 tables, and 28 text-figs.

A reprint of Owen, R., 1847 B, with additional facts and illustrations.

1849 D

On the structure of the teeth of some fossil fish of the Carboniferous period.

Ann. Mag. Nat. Hist. (2), III, 41-42.

1851 C

For title and citation see Hay, O. P., 1902 A, p. 188. Abstracts in Lond. Edinb Dublin Philos Mag. (4), I, 250-253; Froriep's Tagsber., II, 97-101.

1851 D

Comparison of the modifications of the osseous structure of the *Megatherium*, with that in other known existing and extinct species of the class Mammalia.

Edinb. New Philos. Mag., II, 350-357.

Translation in Froriep's Tagsber., II, 225-230.

1855 D

Note on some remains of an *Ichthyosaurus* discovered by Captain Sir Edward Belcher, C. B. R. N., at Exmouth Island in lat. 77° 16' N., long. 96° W.

In Belcher's The last of the Arctic voyages, II, 389-391, pl. xxxi, map.

1855 E

On the anthropoid apes and their relations to man.

Proc. Roy. Instn. G. Brit., II, 26-41.

1857 E

On the characters, principles of division, and primary groups of the class Mammalia.

Jour. Linn. Soc. Lond., II, 1-37, 6 text-figs.

Owen, R.—Continued

1857 F

On the affinities of the *Stereognathus ooliticus* (Charlesworth), a mammal from the Oolitic slate of Stonesfield.

Quart. Jour. Geol. Soc., XIII, 1-11. Also in Arch. Sci. Phys. Nat., XXXV, 191-205.

1857 G

On the fossil vertebra of a serpent (*Laophis crotaloides*, Ow.) discovered by Capt. Spratt, R. N., in a Tertiary formation in Salonica.

Quart. Jour. Geol. Soc., XIII, 196-199, pl. iv.

1858 A

On the characters, principles of division and primary groups of the class Mammalia.

Proc. Linn. Soc. Lond., Zool., II, 1-37, 6 text-figs.

1859 E

On the vertebral column of the order Pterosauria (Ow.) as exemplified in the genera *Pterodactylus* (Cuv.) and *Dimorphodon* (Ow.).

Proc. Roy. Soc. Lond., IX, 703-704 (Abstract).

1859 F

On some reptilian remains from South Africa.

Edinb. New Philos. Jour., x, 289-291.

1860 A

On the orders of fossil Reptilia and their distribution in time.

Rep. Brit. Assoc. Adv. Sci., XXIX, Aberdeen, 1859, 153-166.

1861 A

A monograph of a fossil dinosaur (*Scelidosaurus harrisoni* Owen) of the Lower Lias.

Palaeont. Soc. Mon. Brit. Foss. Reptilia of the Liassic formation. Pt. I, 1-14, pls. 1-vi.

1862 B

On the cervical and lumbar vertebrae of the mole (*Talpa europæa*).

Rep. Brit. Assoc. Adv. Sci., 1861 (1862), 152-154.

1863 B

A monograph of a fossil dinosaur (*Scelidosaurus harrisoni* Owen) of the Lower Lias.

Palaeont. Soc. Mon.-Brit. Foss. Reptilia of the Liassic formation. Pt. II, 1-26, pls. 1-xi.

Owen, R.—Continued

1869 B

On the distinction between *Castor* and *Trogontherium*.

Geol. Mag., VI, 49-56, pl. iii, 4 text-figs.

1869 C

Description of a great part of a jaw with the teeth of *Strophodus medius*, Ow., from the Oolite of Caen, in Normandy.

Geol. Mag., VI, 193-196; 235-236, pl. vii, and a text-fig.

Abstract in Neues Jahrb. Min. Geol. Pal., 1870, 1035.

1869 D

On some Indian Cetacea collected by Walter Elliott, Esq.

Trans. Zool. Soc. Lond., VI, 17-47, pls. iii-xiv.

1869 E

Description of the cavern of Bruniquel, and its organic contents.

Phil. Trans. Roy. Soc. Lond., CLXIX, pt. 1, 517-557, pls. lvi-lx, 9 text-figs.

1869 F

On the remains of a large extinct lama (*Palauchenia magna*, Ow.), from Quaternary deposits in the valley of Mexico.

Proc. Roy. Soc. Lond., XVII, 405-406.

1870 D

Monograph on the British fossil Cetacea of the Red Crag.

Palaeont. Soc. Mon., pp. 1-40, pls. 1-IV, 14 text-figs.

Same as Owen, R., 1889 A, wrongly dated.

1873 B

Discussion on *Hypsilophodon foxii*. Quart. Jour. Geol. Soc., XXIX, 531-532.

1876 D

Descriptive and illustrated catalogue of the fossil Reptilia of South Africa in the collection of the British Museum.

4to. London, 1-xi+1-88 pages, pls. 1-lxx.

1876 E

On the new modification of dinosaurian vertebrae.

Quart. Jour. Geol. Soc., XXXII, 43-46, pls. iv, v.

1878 E

On *Argillornis longipennis* Ow., a large bird of flight from the Eocene clay of Sheppey.

Quart. Jour. Geol. Soc., XXXIV, 124-130, pl. vi.

- Owen, R.**—Continued 1879 C
On *Hypsiprinnodon* Ramsay, a genus indicative of a distinct family (Pleopodidae) in the diprotodont section of the Marsupialia.
Trans. Linn. Soc. Lond. (2), I, 573-582, pls. lxxi, lxxii, 3 text-figs.
- 1879 D
On the association of dwarf crocodiles (*Nannosuchus* and *Theriosuchus pusillus*, e. g.) with diminutive mammals of the Purbeck shales.
Quart. Jour. Geol. Soc., xxxv, 148-155, pl. ix.
- 1880 B
On the skull of *Argillornis longipennis* Ow.
Quart. Jour. Geol. Soc., xxxvi, 23-26, pl. ii.
- 1883 A
See Hay, O. P., 1902 A, p. 192.
Abstract in Ann. Mag. Nat. Hist. (5), II, 372.
- 1885 A
Note on the resemblance of the upper teeth of an Eocene mammal (*Neoplagiaulax* Lemoine) to those of *Tritylodon*.
Quart. Jour. Geol. Soc., xli, 28-29, figs. 1-3.
See also Geol. Mag. (3), II, 43-44.
- 1885 B
Note on remains of *Elephas primigenius* from one of the Creswell bone-caves.
Quart. Jour. Geol. Soc., xli, 31-33, 2 figs.
- Owen, Richard** (of America) 1862 A
Report of a geological reconnaissance of Indiana, 1859-1860.
- Pabst, Wilhelm** 1896 A
Thierfährten aus dem Oberrothliegenden von Tambach in Thüringen.
Zeitschr. deutsch. Geol. Ges., xlviii, 638-643, pl. xiv.
- 1900 A
Beiträge zur Kenntniss der Tierfährten in dem Rothliegenden "Deutschlands."
Zeitschr. deutsch. Geol. Ges., lxi, 48-63.
Abstract in Geol. Centralbl., I, 155, 1901.
- 1905 A
Beiträge zur Kenntniss der Tierfährten in dem Rothliegenden "Deutschlands."
Zeitschr. deutsch. Geol. Ges., lvii, 1-14, 361-379, pls. i-iv, xv-xviii.
- Pabst, Wilhelm**—Continued 1908 A
Beiträge zur Kenntniss der Tierfährten in dem Rothliegenden "Deutschlands."
Zeitschr. deutsch. Geol. Ges., lx, 325-345.
Abstract in Neues Jahrb. Min. Geol. Pal., 1910, I, 468.
- Packard, A. S.** 1868 B
Ice-marks and ancient glaciers in the White Mountains.
Amer. Naturalist, I, 200-209.
- 1904 A
The two chief faunæ of the earth.
Science (n.s.), xix, 220-221.
- Packard, E. L.** See **Smith and Packard.** 1919 A
- Paget, Geoffrey W., and Robert E. Savage** 1916 A
The growth rings on herring scales.
Proc. Roy. Soc. Lond., lxxxix, 258-260.
- Palacký, J.** 1894 A
Über neue Resultate der Verbreitung der Reptilien.
Verh. Ges. deutsch. Naturf., 1893, II, Pt. I, 129-133.
- 1898 A
La distribution des ophidiens sur le globe.
Mém. Soc. zool. France, xi, 88-125.
- 1898 B
Die Verbreitung der Batrachier auf der Erde.
Verh. zool.-bot. Ges. Wien, xlviii, 374-382.
- 1899 A
Zur geologischen Geschichte der Affen.
Sitz.-Ber. böhm. Ges. Wiss., 1898, art. xvi, 1-2.
- 1899 B
Über die Verbreitung der Salamandriden.
Sitz.-Ber. böhm. Ges. Wiss., 1898, art. xxxv, 1-7.
- 1899 C
Die Verbreitung der Eidechsen.
Zool. Jahrb. Syst., xii, 247-285.
- 1902 A
Zur Verbreitung der Edentaten.
Sitz.-Ber. böhm. Ges. Wiss., 1901, art. xiii, 1-5.
- 1902 B
Über Länderfaunen.
Verh. deutsch. Zool. Ges., xii, 1902, 137-152.

- Palacký, J.**—Continued 1902 C
Die Verbreitung der Meeressäuge-
thiere.
Zool. Jahrb. Syst., xv, 249-266.
- 1902 D
Die Verbreitung der Mikrochiro-
pteren.
Sitz.-Ber. böhm. Ges. Wiss., 1901, No.
xxiv, 1-23.
- 1903 A
Die Verbreitung der Marsupialien.
Sitz.-Ber. böhm. Ges. Wiss., 1902, art.
xviii, 1-7.
- 1903 B
Die Verbreitung der Ungulaten.
Zool. Jahrb. Syst., xviii, 303-341.
Abstract in Geol. Centralbl., III, 553.
- 1903 C
Die Verbreitung der Insectivoren.
Zool. Jahrb. Syst., xviii, 342-350.
- 1904 A
La distribution géographique des
rongeurs sur le globe.
Frag., 1904. (Not seen.)
- Pallas, P. S.** 1780 A
Observatio de dentibus molaribus
fossilibus ignoti animalis, canadensi-
bus analogis, etiam ad Uralense jugum
reptis.
Acta Acad. Sci. Petropol., 1777 (1780), i,
pt. II, 213-222, pls. viii, ix.
- 1788 A
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Die Skelete der Raubthiere.
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- 1823 A
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- 1831 A
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1909 B

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1911 A

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1911 C

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1912 A

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1912 C

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1913 A

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Science (n.s.), xxxviii, 673.

1914 A

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1914 B

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Ann. Carnegie Mus., ix, 53-57, pl. xi, 2 text-figs.

1914 C

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1898 I

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1898 J

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1898 K

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1899 C

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1899 D

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- 1899 H
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- 1899 I
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- 1899 N
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- 1899 O
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- 1899 P
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- 1899 Q
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Neues Jahrb. Min. Geol. Pal., 1899, II,
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- Schlosser, Max**—Continued 1899 T
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- 1899 U
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- 1901 B
 Review of Osborn, H. F., 1898 I.
Neues Jahrb. Min. Geol. Pal., 1901, II,
 Ref., 300-309, 2 figs.
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 Ref., 150.

Schlosser, Max—Continued 1901 F

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B.

Neues Jahrb. Min. Geol. Pal., 1901, I,
Ref., 299-302.

1901 G

Review of Scott, W. B., 1895 A.

Neues Jahrb. Min. Geol. Pal., 1901, I,
Ref., 489-493.

1901 H

Review of Osborn, H. F., 1898 E.

Neues Jahrb. Min. Geol. Pal., 1901, I,
Ref., 499-500.

1901 I

Review of Osborn, H. F., 1898 F.

Neues Jahrb. Min. Geol. Pal., 1901, II,
Ref., 460-461.

1901 J

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Ref., 469.

1901 K

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Ref., 467-468.

1901 L

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1899 B, 1899 C, 1899 D.Neues Jahrb. Min. Geol. Pal., 1901, II,
Ref., 479-480.

1901 M

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Neues Jahrb. Min. Geol. Pal., 1901, II,
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1901 N

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1902 A

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1899 A.Neues Jahrb. Min. Geol. Pal., 1902, I,
Ref., 134-140, 4 text-figs.

1902 B

Review of Scott, W. B., 1898 B.

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Ref., 297-300.

1902 C

Review of Osborn, H. F., 1898 G.

Neues Jahrb. Min. Geol. Pal., 1902, I,
Ref., 300-301.

1902 D

Review of Earle, C., 1898 A.

Neues Jahrb. Min. Geol. Pal., 1902, I,
Ref., 301-302.

1902 E

Review of Osborn, H. F., 1898 H.

Neues Jahrb. Min. Geol. Pal., 1902, I,
Ref., 472-480.**Schlosser, Max—Continued 1902 F**

Review of Ameghino, F., 1899 A.

Neues Jahrb. Min. Geol. Pal., 1902, II,
Ref., 134-136.

1902 G

Review of Scott, W. B., 1898 A.

Neues Jahrb. Min. Geol. Pal., 1902, II,
Ref., 136-140.

1902 H

Review of Cope, E. D., 1889 A.

Neues Jahrb. Min. Geol. Pal., 1902, II,
Ref., 140-143.

1902 I

Ueber Tullberg's "System der
Nagethiere nebst Bemerkungen über
die fossilen Nager und die während
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737-748.Abstracts in Geol. Centralbl., VI, 566; VII,
632-633; Jahresber. Anat. Entwickl. (N.F.),
VIII, pt. 3, 115-116.

1902 J

Beiträge zur Kenntnis des Säugetier-
reste aus den süddeutschen Bohn-
erzen.Geol. Pal. Abh. Jena. (N.F.), V (XII),
117-258, pls. 1-v (VI-X).Abstracts in Neues Jahrb. Min. Geol. Pal.,
1908, I, Ref., 122-129; Jahresber. Anat. En-
twickl. (N.F.), VIII, pt. 3, 108-110.

1902 K

Review of Stehlin, H. G., 1899 A.

Neues Jahrb. Min. Geol. Pal., 1902, II,
Ref., 463-477.

1903 A

Review of Pavlow, M., 1900 A.

Neues Jahrb. Min. Geol. Pal., 1903, II,
Ref., 288-292.

1903 B

Review of Wortman, J. L., 1899 A.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 146-148.

1903 C

Review of Osborn, H. F., 1900 H.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 554-560.

1903 D

Review of Osborn, H. F., 1900 I.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 560-561.

1903 E

Anthropodus oder *Neopithecus*.

Centralbl. Min. Geol. Pal., 1903, 512-513.

1903 F

Review of Major, C. J. F., 1899 A.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 141-144.

Schlosser, Max—Continued 1903 G

Abstracts of Osborn, H. F., 1899 A,
1900 F, 1900 J.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 144-145.

1903 H

Abstract of Lucas, F. A., 1899 A.

Neues Jahrb. Min. Geol. Pal., 1903, I,
Ref., 146.

1903 I

Die fossilen Säugethiere Chinas
nebst einer Odontographie der recenten
Antilopen.

Abh. Bayer. Akad., XXII, 1-221, pls. i-xiv,
32 text-figs.

Abstracts in Geol. Centralbl., VIII, 630-
631; Jahresber. Anat. Entwickl. (N.F.), IX,
pt. 3, 175-178.

1904 A

Notizen über einige Säugethier-
faunen aus dem Miocän von Württem-
berg und Bayern.

Neues Jahrb. Min. Geol. Pal. Beil.-Bd
XIX, 485-502, pl. xxvi.

Abstract in Jahresber. Anat. Entwickl
(N.F.), X, Abth. 3, 178-181.

1904 B

J. L. Wortman's "Studies of
Eocene Mammalia in the Marsh col-
lection. Peabody Museum."

Neues Jahrb. Min. Geol. Pal., 1904, I,
Ref., 446-459

A synopsis of Wortman's various papers
entitled as above, published in Amer. Jour
Sci., 1901, 143-155, 193-207, 281-296, 333-348,
377-383, 421-433, 437-450; 1902, 39-47, 97-114,
197-206.

1904 C

Die fossilen Cavicornia von Samos.

Beitr. Pal. Geol. Oesterr.-Ung., XVII, 1904,
21-118, pls. iv-xii, 4 text-figs.

1905 A

Review of J. L. Wortman's "Stud-
ies of Eocene Mammalia in the Marsh
collection, Peabody Museum." Part
II: Primates.

Neues Jahrb. Min. Geol. Pal., 1905, II,
Ref., 324-336.

A review of Wortman's papers published
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414, 419-436; 1904, 23-33, 133-140, 203-214.

1905 B

Review of Osborn, H. F., 1904 A.

Neues Jahrb. Min. Geol. Pal., 1905, I,
Ref., 125-126.

Schlosser, Max—Continued 1907 A

Review of four papers published by
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Mus. Nac. Buenos Aires*, XI, XII, XIII.
Neues Jahrb. Min. Geol. Pal., 1907, I,
Ref., 466-475.

1907 B

Review of Barbour, E. H., 1905 B.

Neues Jahrb. Min. Geol. Pal., 1907, II,
Ref., 485

1907 C

Beitrag zur Osteologie und system-
atischen Stellung der Gattung *Necro-
lemur*, sowie zur Stammesgeschichte
der Primaten überhaupt.

Neues Jahrb. Min. Geol. Pal., 1907, Fest-
Bd, 197-226, pl. x.

Abstracts in Geol. Centralbl., XI, 601-603;
Sci. Progress, III, 452.

1910 A

Über einige fossile Säugetiere aus
dem Oligocän von Ägypten.

Zool. Anz., XXXV, 500-508.

Abstract in Sci. Progress, V, 662.

1911 A

Beiträge zur Kenntnis der oligo-
zänen Landsäugetiere aus dem Fayum,
Ägypten.

Beitr. Pal. Geol. Oesterr.-Ung., XXIV, 1911,
51-167, pls. ix-xvi, 1 text-fig.

For a summary of this work see Neues
Jahrb. Min. Geol. Pal., 1912, II, Ref., 132-
142.

1916 A

Neue Funde fossiler Säugetiere in
der Eichstätter Gegend.

Abh. Bayer. Akad., XXVIII, art. 6, 1-78,
6 pls.

1917 A

Zeitliche und räumliche Verbreitung
und Stammesgeschichte der fossilen
Fische.

Sitz.-Ber. Akad. Wiss. München, 1917, 131-
150.

Reviewed in Neues Jahrb. Min. Geol. Pal.,
1919, I, Ref., 109-110; Geol. Zentralbl., XXIII,
478.

1921 A

Beiträge zur Kenntnis der Säu-
getierreste aus dem untersten Eocän von
Reims.

Palaeontogr., LXIII, 97-136, pls. xv-xvi, 1
text-fig.

In the bibliography (pages 99-100) are
recorded 16 titles.

Abstract in Rev. crit. Paléozool., XIV, 17.

Schlosser Max—Continued 1924 A

Tertiary vertebrates from Mongolia.
Palaeont. Sinica, I, fasc. 1, 1-119, pls. i-vi, 5 text-figs.

Numerous citations of the literature in foot-notes.

1924 B

Über die systematische Stellung jungtertiärer Cerviden.

Centralbl. Min. Geol. Pal., 1924, 634-640.

Schmalhausen, J. J. 1907 A

Die Entwicklung des Skelettes der vorderen Extremität der anuren Amphibien.

Anat. Anz., xxxi, 177-187, 5 text-figs.

1908 A

Die Entwicklung des Skelettes der hinteren Extremität der anuren Amphibien.

Anat. Anz., xxxiii, 337-344, 4 text-figs.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xiii, pt. 3, 121; xiv, pt. 3, 112-119.

1908 B

Zur Morphologie des Säugetierfusses.

Anat. Anz., xxxiii, 373-378, 5 text-figs.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xiv, pt. 3, 122.

1910 A

Die Entwicklung des Extremitätenskelettes von *Salamandrella kayserlingii*.

Anat. Anz., xxxvii, 431-446, 1 pl., 7 text-figs.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xvi, pt. 3, 139-140.

1912 A

Zur Morphologie der unpaaren Flossen. I: Die Entwicklung des Skelettes und der Musculatur der unpaaren Flossen der Fische.

Zeitschr. wiss. Zool., c, 509-587, pls. xv-xviii.

1913 A

Zur Morphologie der unpaaren Flossen. II: Bau und Phylogenese der unpaaren Flossen und insbesondere der Schwanzflosse der Fische.

Zeitschr. wiss. Zool., civ, 1-80, pls. i, ii, 14 text-figs.

A list of 48 papers bearing on the subject is presented on pages 77-79.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xix, pt. 3, 160-162.

Schmalhausen, J. J.—Continued 1913 B

Zur Morphologie der unpaaren Flossen. III: Die Entwicklung des Skelettes der hypochondralen Caudalis von *Pristiurus* und der unpaaren Flossen von *Acipenser*.

Zeitschr. wiss. Zool., cvii, 732-759, pl. xxiii.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xix, pt. 3, 167-168.

1913 C

Die unpaaren Flossen der Fische und deren Phylogenese.

Mem. Soc. Natural. Kiew, xxiii, 1-256, 6 pls., 14 text-figs.

The text is in Russian; résumé in German, pages 253-256.

There are 89 titles in the bibliography.

Abstract in *Jahresber. Anat. Entwickl.* (N.F.), xix, pt. 3, 160-162.

1916 A

On the median fin of the Dipnoi.

Rev. Zool. Russe., I, 65-74, 8 figs.

1916 B

Le développement des extrémités chez les amphibiens et leur signification dans la question de l'origine des extrémités des Tétrapodes.

Rev. Zool. Russe., I, 138-147.

1916 C

On the functions of the fins of fishes.

Rev. Zool. Russe., I, 207-214, 6 figs.

1917 A

On the dermal bones of the shoulder-girdle of the Amphibia.

Rev. Zool. Russe., II, 102-110, figs. d-n and a plate of 15 figs.

The Russian text occupies pages 84-102 and contains the figures.

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1917 B

On the extremities of *Ranidens sibiricus* Kessl.

Rev. Zool. Russe., II, 129-131, figs. 1-5. With also a text in Russian.

1923 A

Der Suspensorialapparat der Fische und das Problem der Gehörknöchelchen.

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1923 B

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- Schmid-Monnard, Carl** 1883 A
Die Histogenese des Knochens der Teleostier.
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- Schmidt, Bruno** 1913 A
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Appended is a bibliography of 54 titles
- Schmidt, E.** 1872 A
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Vorläufige Mittheilungen über die wissenschaftliche Resultate der Expedition zur Aufsuchung eines angekündigten Mammutcadavers.
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Wissenschaftliche Resultate der zur Aufsuchung eines angekündigten Mammutcadavers von der kaiserlichen Akademie der Wissenschaften an den unteren Jenissei ausgesandten Expedition.
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Pages 28-36 are devoted to "Das Mammut und seine Lagerstätte"
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i-xxii+1-306 pages, 51 wood cuts.
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Über *Metriorhynchus jækeli* nov. sp.
Zeitschr. deutsch. geol. Ges., lvi, Monatsab., 97-108, 3 text-figs.
- Schmidt, Wilhelm J.** 1909 A
Beiträge zur Kenntnis der Parietalorgane der Saurier.
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Das Integument von *Voeltzkowia mira* Bttgr. Ein Beitrag zur Morphologie und Histologie der Eidechsenhaut.
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- 1914 A
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- 1914 B
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- 1916 A
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 Ein neuer Stegocephale aus dem Rotliegenden des nordwestlichen Sachsen.
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Abstract in *Geol. Centralbl.*, xix, 35.
1910 A
Evidence that the fossiliferous gravel and sand beds of Iowa and Nebraska are Aftonian.
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Abstract in *Geol. Centralbl.*, xix, 35.
- Shimek, B.**—Continued 1910 B
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- Short, Howard** 1914 A
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- Shufeldt, R. W.** 1881 F
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1882 A
The number of bones at present known in the pectoral and pelvic limbs of birds.
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1882 B
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Proc. U. S. Nat. Mus., vii, 324-331, 7 text-figs.

- Shufeldt, R. W.**—Continued 1883 D
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- 1884 B
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Amer. Naturalist, XXX, 357-372.
A review of The A. O. U. Check-list of North American birds.
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Osteology of the flamingoes.
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- 1901 C
Osteology of the cuckoos.
Proc. Amer. Philos. Soc., XL, 4-51, pls. i, ii.
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- 1901 D
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 Osteology of the Limicolæ.
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- **1903 B**
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 Amer. Naturalist, xxxvii, 33-64, 2 text-
 figs.
- **1904 A**
 On the osteology and systematic
 position of the Pygopodes.
 Amer. Naturalist, xxxviii, 13-49, pl. i, 2
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- **1904 B**
 An arrangement of the families and
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 Amer. Naturalist, xxxviii, 833-857, 6 text-
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- **1904 C**
 Comparison of the provisional
 schemes of the classification of birds.
 Amer. Naturalist, xxxviii, 311-319.
- **1907 A**
 On the osteology of the Tubinares.
 Amer. Naturalist, xli, 109-124, 2 text-figs.
- **1907 B**
 The flight of *Archæopteryx*.
 Discovery, New York, i, 114.
- **1909 A**
 Osteology of birds.
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- Shufeldt, R. W.—Continued 1913 A**
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- **1913 B**
 Review of the fossil fauna of the
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 scription of additional material col-
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 Bull. Amer. Mus. Nat. Hist., xxxii, 123-
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- **1913 C**
 Further studies of fossil birds, with
 descriptions of new and extinct spe-
 cies.
 Bull. Amer. Mus. Nat. Hist., xxxii, 285-
 306, pls. li-lx.
 Paper announced in Science (n.s.), 306,
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 Abstracts in Sci. Progress, viii, 638; Rev.
 crit. Paléozoöl., xxi, 48; Geol. Zentralbl.,
 xxi, 238.
- **1913 D**
 Fossil feathers and some heretofore
 undescribed fossil birds.
 Jour. Geol., xxi, 628-652, 12 text-figs.
 Abstracts in Geol. Centralbl., xx, 704;
 Sci. Progress, viii, 638.
- **1913 E**
 On the patella in the Phalacrocora-
 cidæ.
 Proc. Zool. Soc. Lond., 1913, 393-402, pl.
 lx.
 Abstract in Jahresber. Anat. Entwickl.
 (N.F.), xix, pt. 3, 169.
- **1913 F**
 New and extinct birds and other
 species from the Pleistocene of Ore-
 gon.
 Science (n.s.), xxxvii, 306-307.
 Presents a list of 25 species.
- **1913 G**
 Extinct ostrich birds of the United
 States.
 Aquila, xx, 411-422, pls. i-v. In Hun-
 garian and English.
- **1913 H**
 The wild turkey and its hunting.
 The Illustrated Outdoor World and Rec-
 reation, New York, xlviii, 94-98; 146-147,
 34 figs.
 Articles written by R. W. Shufeldt for
 Edward A. McIlhenney, in part; in part by
 McIlhenney himself.
- **1914 A**
 The biggest bird that ever lived.
 Scient. Amer., cx, 245-246, 329, fig. on
 cover.

Shufeldt, R. W.—Continued 1914 B

On the skeleton of the ocellated turkey (*Agriocharis ocellata*) with notes on the osteology of other Melcagridæ.

Aquila, xxi, 1-52, 14 pls.

Printed in Hungarian and English.

Citations of the literature are in footnotes.

1914 C

Contribution to the study of the "treeducks" of the genus *Dendrocygna*.

Zool. Jahrb. Syst., xxxviii, 1-70, pls. i-xvi.

1915 A

On a restoration of the base of the cranium of *Hesperornis regalis*.

Bull. Amer. Pal., v, 73-85 (1-13 of reprint), pls. i, ii.

For brief note on see Aquila, xxii (1915), 400.

1915 B

A critical study of the fossil bird *Gallinuloides wyomingensis* Eastman.

Jour. Geol., xxxiii, 619-634, 2 text-figs.

For abstract see Aquila, xxii (1915), 399.

1915 C

Comparative osteology of certain rails and cranes, and the systematic positions of the supersuborders Gruiformes and Ralliformes.

Anat. Record, ix, October, 1915, 731-750, 9 text-figs.

1915 D

Fossil birds in the Marsh collection of Yale University.

Trans. Conn. Acad. Arts Sci., xix, 1-110, pls. i-xv.

Abstracts in Aquila, xxii (1915), 398-399; Rev. crit. Paléozool., xx, 89.

1915 E

On the taxonomy of the Procyonidæ. Science (n.s.), xli, 691-692.

1915 F

The fossil remains of a species of *Hesperornis* found in Montana.

Auk, xxxii, 290-294, pl. xviii.

For brief note on this paper see Aquila, xxii (1915), 400.

1915 G

Fossil remains of the extinct cormorant *Phalacrocorax macropus* found in Montana.

Auk, xxxii, 485-488.

Shufeldt, R. W.—Continued 1916 A

Gilmore's restoration of *Ceratosaurus nasicornis*.

Scient. Amer. Suppl., No. 2098, 187, 1 text-fig.

1916 B

Monster extinct reptiles. Some recent restorations at the National Museum.

Scient. Amer. Suppl., No. 2089, 40-42, 7 text-figs.

1916 C

New extinct bird from South Carolina.

Geol. Mag., iii, 343-347, pl. xv.

Abstracts in Geol. Zentralbl., xxiii, 445; xxvi, 379

1916 D

Fossil birds' eggs.

Emu, xvi, 80-91, pls. xxi-xxv.

1916 E

Report on fossil birds from Vero, Florida.

Jour. Geol., xxv, 18-19.

Reprints of this paper were distributed a few days before Jan 1, 1917. Reviewed in Auk, xxxiv, 357.

1916 F

The restoration of *Podokesaurus holyokensis*.

Jour. Wash. Acad. Sci., vi, 258-259.

1917 A

Observations on the osteology of the porcupine fish (*Diodon hystrix*).

Anat. Record, xi, 1-3.

1917 B

Fossil birds found at Vero, Florida.

Rep. Florida Geol. Surv., ix, 35-42, pls. i, ii, text-figs. 1-25.

Abstract in Rev. crit. Paléozool., xxv, 15.

1917 C

On the Government collection of fossil fishes.

Aquarium Bull., Nov. 1917, 49-51, a text-figure of *Priscacara dartoni*.

Included is a list, probably not wholly complete, of the fossil fishes in the U. S. National Museum.

1917 D

Fossil remains of what appears to be a passerine bird from the Florissant shales of Colorado.

Proc. U. S. Nat. Mus., lxi, 453-455, pls. ix, lxi.

Described remains of a wholly indeterminate bird.

- Shufeldt, R. W.**—Continued 1918 A
Notes on some bird fossils from Florida.
Auk, xxxv, 357-358.
- 1920 A
Baker on the birds of the Pleistocene.
Auk, xxxvii, 634-635.
- 1921 A
Observations on the cervical region of the spine in chelonians.
Jour. Morphol., xxxv, 213-223, pls. 1, II
- 1922 A
Remarkable changes in the skull of an American badger (*Taxidea taxus*) due to age.
Jour. Mamm., III, 173-175, pl. x.
- 1924 A
The skull of the wolverine (*Gulo luscus*).
Jour. Mamm., v, 189-193, pls. xxi, xxii.
- Shuler, Ellis W.** 1917 A
Dinosaur tracks in the Glen Rose limestone, near Glen Rose, Texas.
Amer Jour Sci. (4), XLIV, 294-298, 3 figs
Abstract in Geol Zentralbl, xxv, 505.
- 1923 A
Occurrence of human remains with Pleistocene fossils, Lagow sand pit, Dallas, Texas.
Science (n.s.), LVII, 333-334.
- Shumard, B. F.** 1855 A
Description of a geological section, on the Mississippi River, from St. Louis to Commerce.
Geol Surv. of Missouri, I, II, by G. C. Swallow, pt II, 139-184.
- 1863 A
Discovery in Texas of dicotyledonous leaves in Cretaceous strata and the existence of an extensive Miocene formation.
Trans Acad. Sci. St. Louis, II, 140-141.
- 1873 A
S'te Genevieve and Jefferson Counties [Missouri].
Geol. Surv Missouri, 1855-1871. Ralph Pumpelly, director. 290-313, maps.
- Sicher, Harry** 1916 A
Die Entwicklung des Gebisses von *Talpa europæa*.
Anat Hefte, Arb., LIV, 31-112, pls III-VI, 20 text-figs.
The bibliography cites 13 papers.
- Siebenrock, F.** 1892 B
Ueber Wirbelassimilation bei den Sauriern.
Ann. naturh. Hofmus. Wien, VII, 373-378, 2 figs.
- 1900 A
Der Zungenbeinapparat und Kehlkopf sammt Luftröhre von *Testudo calcarata* Schneid.
Sitz.-Ber. Akad. Wiss. Wien, CIX, Abth. I, 441-448, 1 plate.
- 1901 A
Ueber die Verbindungsweise des Schultergürtels mit dem Schädel bei den Teleosteen.
Ann. naturh. Hofmus. Wien, XVI, 105-141, pls. IV-VI.
The bibliography comprises 73 titles.
- 1902 A
Zur Systematik der Schildkrötenfamilie Trionychidae Bell, nebst Beschreibung einer neuen *Cyclanorbis*-Art.
Sitz.-Ber. Akad. Wiss. Wien, XCI, 807-846, 18 figures in the text.
Plastrs of all the species are figured.
- 1906 A
Ergebnisse einer zoologischen Forschungsreise von Dr. Franz Werner nach Ägypten und im ägyptischen Sudan, IV, Krokodile und Schildkröten.
Sitz.-Ber. Akad. Wiss. Wien, CXV, Heft 6, 817-839, 8 figs.
- 1907 A
Die Schildkrötenfamilie Cinosternidae. Monographisch bearbeitet.
Sitz.-Ber. Akad. Wiss. Wien, CXVI, Abth. I, 527-599, pls. I, II, 2 maps, 8 text-figs.
- 1909 A
Synopsis der rezenten Schildkröten, mit Berücksichtigung der in historischer Zeit ausgestorbenen Arten.
Zool. Jahrb., Suppl., x, 427-618.
- 1919 A
Emydura macquarrii Gray und der systematische Wert des Nuchalschildes bei den Schildkröten.
Zool. Anz., I, 273-277.
- 1923 A
Die nearktischen Trionychidae.
Verh. zool.-bot. Ges. Wien, LXXXIII, 180-194.

- Sieglbauer, Felix** 1909 A
Zur Anatomie der Schildkröten-
extremität.
Arch. Anat. Physiol. Leipzig., 183-280, pls.
vii-x, 4 text-figs.
Appended is a bibliography of 42 titles.
The paper deals almost wholly with the
muscles and nerves.
- 1911 A
Zur Entwicklung der Vogelex-
tremität.
Zeitschr. wiss. Zool., xcvi, 262-313, pls.
xiii, xiv, 16 text-figs.
This paper is followed by a list of 30
works on the subject.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), xv, pt. 3, 176.
- Silliman, B., Sr.** 1831 A
Remarks on Cooper, Smith and
Dekay's report.
Amer. Jour. Sci. (1), xx, 371-372.
- Silliman, B.** 1855 A
On the subject of petrification.
Warren's *Monograph on Mastodon*, ed.
2, 221-222.
- Simmons, G.** 1902 A
Note sur *Helicoprion besonowi*
(Karpinsky).
Bull. Soc. belge Géol. (2), xiii, Pr. verb.,
235-243, 6 figs.
- Simpson, George Gaylord** 1924 A
The American triconodonts.
Geol. Soc. Amer. Prelim. lists, 1924, 39.
- 1925 A
American triconodonts.
Bull. Geol. Soc. Amer., xxxvi, 229 (Ab-
stract).
- 1925 B
Mesozoic Mammalia. I: American
triconodonts. II: *Timodon* and its
allies. III: Preliminary comparison
of Jurassic mammals, except multi-
tuberculates.
Amer. Jour. Sci. (5), x, 145-165, 332-358,
451-470, 559-569, 40 figs.
On page 358 is a bibliography of 30 titles.
Abstracts in Neues Jahrb. Min. Geol. Pal.,
1926, 90-94.
- 1925 C
A Mesozoic mammal skull from
Mongolia.
Amer. Mus. Novit., cxi, 1-11, 7 figs.
- 1925 D
Review of Johan Kiaer on "The
Downtonian Fauna of Norway. I:
Anaspida, etc."
Science (n.s.), Lxii, 288-289.
- Simpson, George G.—Cont'd** 1926 A
Are *Dromatherium* and *Microcono-*
don mammals?
Science (n.s.), Lxiii, 548-549.
- 1926 B
Pre-Cretaceous evolution of mam-
malian lower molars.
Bull. Geol. Soc. Amer., xxxvii, 238 (Ab-
stract).
- 1926 C
New reconstruction of *Lasanius*.
Bull. Geol. Soc. Amer., xxxvii, 397-402,
1 fig.
- 1926 D
Mesozoic Mammalia. IV: The mul-
tituberculates as living animals.
Amer. Jour. Sci. (5), xi, 228-250, 8 figs.
- 1926 E
The fauna of Quarry 9.
Amer. Jour. Sci. (5), xii, 1-11, 1 fig.
- 1926 F
American terrestrial Rhynchoceph-
alia.
Amer. Jour. Sci. (5), xii, 12-16, 2 figs.
- 1926 G
Mesozoic Mammalia. V: *Dromathe-*
rium and *Microconodon*.
Amer. Jour. Sci. (5), xii, 87-108.
- 1926 H
The age of the Morrison formation.
Amer. Jour. Sci. (5), xii, 196-216.
The bibliography presents 23 titles.
- 1926 I
Review of G. Heilmann's *Origin of*
Birds.
Amer. Jour. Sci. (5), xi, 453-454.
- 1926 J
Review of F. von Huene's *The*
carnivorous dinosaurs in the Jura and
Cretaceous formations, principally in
Europe.
Amer. Jour. Sci. (5), xii, 458.
- 1926 K
Review of David Black's *Asia and*
the dispersal of the Primates.
Amer. Jour. Sci. (5), xv, 459.
- 1927 A
Mammalian fauna of the Hell Creek
formation of Montana.
Amer. Mus. Novit., cclxvii, 1-7, 6 figs.
- 1927 B
Mammalian fauna and correlation
of the Paakapoo formation of Alberta.
Amer. Mus. Novit., cclxviii, 1-10.

- Simpson, George G.—Cont'd** 1927 C
Mesozoic Mammalia. VI: Genera of Morrison pantotheres.
 Amer. Jour. Sci. (5), xiii, 409-416.
- 1927 D
Mesozoic Mammalia. VII: Taxonomy of Morrison multituberculates.
 Amer. Jour. Sci. (5), xiv, 36-38.
- 1927 E
Tathiodon, new genus, to replace *Tanaodon* Simpson non Kirk.
 Amer. Jour. Sci. (5), xiv, 71.
- 1927 F
Mesozoic Mammalia. VIII: Genera of Lance mammals other than multituberculates.
 Amer. Jour. Sci. (5), xiv, 121-130.
- 1927 G
Mesozoic Mammalia. IX: The brain of Jurassic mammals.
 Amer. Jour. Sci. (5), xiv, 259-268, 4 figs.
- 1928 A
 A new mammalian fauna from the Fort Union of southern Montana.
 Amer. Mus. Novit., ccxcvii, 1-15, 14 figs.
- 1928 B
Mesozoic Mammalia. XI: *Brancaetherium tendagurense* Dietrich.
 Amer. Jour. Sci. (5), xv, 303-308, 2 figs
 — See also **Gregory and Simpson.**
- Sinclair, W. J.** 1901 A
 The discovery of a new fossil tapir in Oregon.
 Jour. Geol., ix, 702-707, 1 text-fig.
 Abstract in Geol. Centralbl., ii, 762.
- 1903 A
 A preliminary account of the exploration of the Potter Creek Cave, Shasta County, California.
 Science (n.s.), xvii, 708-712.
 Abstracts in Geol. Centralbl., ix, 639;
 Neues Jahrb. Min. Geol. Pal., 1904, ii, Ref., 291.
- 1903 B
 A new tortoise from the auriferous gravels of California.
 Bull. Dept. Geol. Univ. Calif., iii, 243-248, two figures.
 Abstract in Geol. Centralbl., v, 377.
- 1903 C
Mylagaulodon, a new rodent from the Upper John Day of Oregon.
 Amer. Jour. Sci. (4), xv, 143-144, 1 text-fig.
 Abstract in Geol. Centralbl., v, 39.
- Sinclair, W. J.—Continued** 1904 A
 The exploration of the Potter Creek Cave.
 Univ. of Calif. Publ. Amer. Arch. Ethn., ii, 1-27, pls. 1-xiv.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1906, i, Ref., 125-127; Geol. Centralbl., vii, 617-618; Nature, lxxi, 472.
 Condensed reprint in Records of the Past, iii, 1904, 275-282, figures.
- 1904 B
 Note on fossils found in region of Main Walker River, Nevada.
 Bull. Dept. Geol. Univ. Calif., iv, 10-11.
- 1905 A
 New or imperfectly known rodents and ungulates from the John Day series.
 Bull. Dept. Geol. Univ. Calif., iv, 125-143, pls. xiv, xvii.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 303-305, Geol. Centralbl., viii, 374; Rev. crit. Paléozool., x, 199.
- 1905 B
 New Mammalia from the Quaternary caves of California.
 Bull. Dept. Geol. Univ. Calif., iv, 145-161, pls. xix, xxiii.
 Abstract in Geol. Centralbl., viii, 372;
 Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 298-299.
- 1905 C
 The marsupial fauna of the Santa Cruz beds.
 Proc. Amer. Philos. Soc., xlv, 73-81, pls. i, ii.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1907, i, 306-309.
- 1905 D
 Mammalia of the Santa Cruz beds: Edentata, Insectivora, Glires.
 Princeton Univ. Exped. Patagonia, 1896-1899, v, i-xi; 1-499, pls. 1-lxxi, 49 text-figs.
 Pages 1-106, pls. i-xvi, were published July 15, 1903; pages 107-226, pls. xvii-xxxv, Nov. 4, 1903; pages 227-364, pls. xxxvi-lxiii, Sept. 5, 1904; pages 365-499, pls. lxiv-lxxi, July 25, 1905. The bibliography is to be found on pages 487-489.
 Reviewed in Nature, lxxv, 498-499.
 Abstract in Sci. Progress, i, 449.
- 1906 A
 Some edentate-like remains from the Mascall beds of Oregon.
 Bull. Dept. Geol. Univ. Calif., v, 65-66, 3 text-figs.
 Abstract in Geol. Centralbl., xii, 387.

Sinclair, W. J.—Continued 1906 B
Mammalia of the Santa Cruz beds:
Marsupialia.

Princeton Univ. Exped. Patagonia, 1886-1899, iv, pt. 3, 333-460, pls. xl-lxv, 9 text-figs.

The extensive bibliography occupies pages 325-332.

Reviewed in *Nature*, LXXV, 498.

1908 A

Recent investigations bearing on the question of the occurrence of Neocene man in the auriferous gravels of the Sierra Nevada.

Univ. Calif. Publ. Amer. Arch. Ethn., vii, 107-131, pls. xiii, xiv.

Abstract in *Geol. Centralbl.*, xii, 217.

1910 A

Dermal bones of *Paramylodon* from the asphaltum deposits of Rancho La Brea, near Los Angeles, California.

Proc. Amer. Philos. Soc., xlix, 191-195, 1 text-fig.

Abstracts in *Nature*, LXXXIII, 505; *Sci. Progress*, v, 674.

1910 B

The restored skeleton of *Leptauchenia decora*.

Proc. Amer. Philos. Soc., xlix, 196-199, 1 text-fig.

Abstracts in *Geol. Centralbl.*, xv, 650, *Sci. Progress*, v, 670.

1912 A

Symposium on ten years progress in vertebrate paleontology. Contributions to geologic theory and method by American workers in vertebrate paleontology.

Bull. Geol. Soc. Amer., xxiii, 262-266.

For the other articles of this symposium see the 1912 papers of Matthew, Gidley, Peterson, Gregory, True, Case, Holland, Lull, Hay, Merriam, Dean, Eastman, Osborn, and Williston.

1914 A

A revision of the bunodont Artiodactyla of the Middle and Lower Eocene of North America.

Bull. Amer. Mus. Nat. Hist., xxxiii, 267-295, 28 text-figs.

Abstracts in *Rev. crit. Paléozoöl.*, xxi, 53; *Geol. Zentralbl.*, xxvii, 222.

1915 A

Additions to the fauna of the Lower Pliocene Snake Creek beds (Results of the Princeton University 1914 expedition to Nebraska).

Proc. Amer. Philos. Soc., liv, 73-95, 18 text-figs.

Abstract in *Science* (n.s.), xli, 839-840.

Sinclair, W. J.—Continued 1917 A
A new labyrinthodont from the Triassic of Pennsylvania.

Amer. Jour. Sci. (4), xliii, 319-321, 1 text-fig.

Brief abstracts in *Bull. Geol. Soc. Amer.*, xxviii, 212; *Geol. Zentralbl.*, xxv, 44.

1918 A

A large parasuchian from the Triassic of Pennsylvania.

Amer. Jour. Sci. (4), xlv, 457-462, text-figs. 1-10.

Abstract in *Geol. Zentralbl.*, xxv, 43.

1921 A

The "turtle-Oreodon" layer, or "red layer." A contribution to the stratigraphy of the White River Oligocene.

Proc. Amer. Philos. Soc., lx, 457-466, pl. vii.

1921 B

A new *Hoplophonus* from the Titanotherium beds.

Proc. Amer. Philos. Soc., lx, 96-98, fig. 1.

Abstract in *Rev. crit. Paléozoöl.*, xxvii, 212.

1921 C

Entelodonts from the big Badlands of South Dakota in the Geological Museum of Princeton University.

Proc. Amer. Philos. Soc., lx, 467-495, 22 text-figs.

Abstract in *Neues Jahrb. Min. Geol. Pal.*, 1923, i, 319.

1922 A

Hyracodonts from the Big Badlands of South Dakota. The small entelodonts of the White River Oligocene.

Science (n.s.), lv, 654 (Abstract).

Abstract in *Rev. crit. Paléozoöl.*, xxvii, 212.

1922 B

The small entelodonts of the White River Oligocene.

Proc. Amer. Philos. Soc., lxi, 53-64, 5 figs.

Abstract in *Rev. crit. Paléozoöl.*, xxvii, 211

1922 C

Hyracodonts from the Big Badlands of South Dakota.

Proc. Amer. Philos. Soc., lxi, 65-79, 8 figs.

1924 A

The faunas of the concretionary zones of the Oreodon beds, White River Oligocene.

Proc. Amer. Philos. Soc., lxiii, 93-133, 10 figs.

- Sinclair, W. J.**—Continued 1925 A
The mounted skeleton of a new
Mesohippus from the Protoceras beds.
Proc. Amer. Philos. Soc., LXIV, 55-63, pl.
iii.
- , and E. L. Furlong 1904 A
Euceraotherium, a new ungulate
from the Quaternary caves of Cali-
fornia.
Bull. Dept. Geol. Univ Calif, III, 411-418,
pls. 50, 51, 1 text-fig.
Abstracts in Geol. Centralbl., VII, 426.
Neues Jahrb. Min. Geol. Pal., 1905, II, Ref.,
469-470, Geol. Mag. (5), I, 465.
- , and W. Granger 1911 A
Eocene and Oligocene of the Wind
River and Bighorn basins.
Bull. Amer. Mus. Nat. Hist., XXX, 83-117,
pls. IV-IX, 4 text-figs.
Abstract in Geol. Centralbl., XX, 694.
- 1911 B
Eocene and Oligocene of the Wind
River and Big Horn basins.
Bull. Geol. Soc. Amer., XXII, 722-723 (Ab-
stract).
- 1912 A
Notes on the Tertiary deposits of
the Big-Horn basin.
Bull. Amer. Mus. Nat. Hist., XXXI, 57-
67, pls. V, VI, 2 text-figs.
- 1914 A
Paleocene deposits of the San Juan
basin, New Mexico.
Bull. Amer. Mus. Nat. Hist., XXXIII, 297-
316, pls. XX-XXVII, 2 sheets presenting sections.
Abstract in Jour. Geol., XXIV, 305.
- , and G. L. Jepsen 1927 A
The skull of *Eusmilus*.
Proc. Amer. Philos. Soc., LXVI, 391-407,
8 figs.
- Sippel, W.** 1907 A
Das Munddach der Vögel und
Säuger.
Morphol. Jahrb., XXXVII, 490-524, 1 plate,
12 text-figs.
This paper is preceded by a note and fol-
lowed by another by A. Fleischman. There
is a bibliography of 8 titles.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), XIII, pt. 3, 82.
- Sirena, Santa** 1872 A
Über den Bau und die Entwicklung
der Zähne bei den Amphibien und
Reptilien.
Verh. phys.-med. Ges. Würzb. (N.F.), II,
124-144, pl. XI.
- Sisson, Septimus** 1910 A
A text-book of veterinary anatomy.
8vo., 1-826 pages, 588 illa.
The osteology occupies pages 19-168, figs.
1-317, and concerns that of the horse, the
ox, the pig and the dog.
- Sixta, V.** 1899 A
Vergleichend-osteologische Bemerk-
ung über den Schultergürtel des *Or-
nithorhynchus paradoxus* und der
Eidechse *Uromastix spinifer*.
Zool. Anz., XXII, 329-336.
- 1900 A
Vergleichend-osteologische Unter-
suchung über den Bau des Schädels
von Monotremen und Reptilien.
Zool. Anz., XXIII, 213-229, 3 text-figs.
- 1900 B
Der Monotremen- und Reptilien-
Schädel.
Zeitschr. Morphol. Anthropol., II, 1900, 323-
364, 13 text-figs.
- 1901 A
Vergleichend-osteologische Unter-
suchung über den Bau der Füße der
Reptilien, Monotremen und Marsu-
pialier. Mit kurzer Übersicht der
neuren Litteratur, betreffend die ana-
tomischen Beziehungen zwischen den
Reptilien, Monotremen und Mam-
maliern.
Zool. Anz., XXIV, 321-332.
- 1905 A
Über den Ursprung der Säugetiere
(Mammalia).
Zool. Anz., XXVIII, 671-678.
Note on in Knowledge, II, 608.
- Skinner, M. P.** 1922 A
The prong-horn.
Jour. Mamm., III, 82-105, pls. VI-IX, 1
text-fig.
The bibliography presents 23 titles.
- Skoda, K.** 1912 A
Anatomische Untersuchungen an
einem Fall von Dydaktylie beider
Schultergliedmassen beim Pferd.
Anat. Anz., XII, 417-424, 5 text-figs.
Abstract in Jahresber. Anat. Entwickl.
(N.F.), XVIII, pt. 3, 178.
- Slade, D. D.** 1887 A
Osteological note.
Science (O.S.), IX, 400.
On rudimentary metacarpals in Bison.

- Sloan, Earle** 1908 A
Catalogue of the mineral localities of South Carolina.
Bull. Carol. Geol. Surv. (4), II, 1-505, pls i-x; text-figs. 1-18, and a geognostic map.
- Slonaker, James Rollin** 1920 A
Some morphological changes for adaptation in the mole.
Jour. Morphol., xxxiv, 335-365, pls. 1-iv. The bibliography occupies pages 364, 365
- Smalian, C.** 1885 A
Beiträge zur Anatomie der Amphibæneniden.
Zeitschr. wiss. Zool., XLII, 126-202, pls. v, vi.
In the bibliography are 34 titles.
- Smallwood, W. M.** 1903 A
The remains of bear and deer on the shores of Onondaga Lake.
Science (n.s.), xviii, 26-27.
- Smith, Bertram G.** 1907 A
The life history and habits of *Cryptobranchus allegheniensis*.
Biol. Bull., XIII, 5-39, 14 figs.
There is a bibliography of 22 titles.
- Smith, Burnett** 1909 A
Note on the Miocene drum fish—*Pogonias multidentatus* Cope.
Amer. Jour. Sci. (4), xxviii, 275-282, 13 text-figs.
Abstract in Geol. Centralbl., xv, 218.
- 1909 B
On some dinichthyid armor plates from the Marecellus shale.
Amer. Naturalist, XLIII, 588-597, 3 text-figs.
Abstract in Geol. Centralbl., xiv, 342.
- 1910 A
Notes on some little-known fishes from the New York Devonian.
Proc. Acad. Nat. Sci. Phila., LXII, 656-663, 2 text-figs.
Abstracts in Geol. Centralbl., xvii, 336; Sci. Progress, v, 692.
- 1914 A
A new locality for *Castoroides*.
Amer. Jour. Sci. (4), xxxviii, 463-466, 1 text-fig.
- 1914 B
A review of the mammalian remains from the superficial deposits in the vicinity of Onondaga lake, New York.
Bull. N. Y. State Mus., CLXXI, 64-72, pls. 1-2.
- Smith, Dwight T.** 1904 A
The geology of the upper region of the Main Walker River, Nevada.
Bull. Dept. Geol. Univ. Calif., IV, 1-32, pls. i-iv.
- Smith, E. A.** 1894 A
Report on the geology of the coastal plain of Alabama.
Geol. Surv. Ala., 1894, i-xxiv+1-759 pages, illustrations.
- Smith, G. Elliot** 1903 A
The brain of the Archæoceti.
Proc. Roy. Soc. Lond., LXXI, 322-331, 4 text-figs.
Abstract in Geol. Centralbl., vi, 238.
- 1903 B
The brain of the Archæoceti.
Jour. Comp. Neur., XIII, 41-52, pls. i, ii, 4 text-figs.
- 1907 A
On the form of the brain in the extinct lemurs of Madagascar, with some remarks on the affinities of the Indrisinae.
Trans. Zool. Soc. Lond., xviii, 163-177, text-figs 53-63.
This paper forms an appendix to one by H. F. Standing (Standing, H F., 1907 A) on recently discovered subfossil Primates from Madagascar.
- 1907 B
On the relationship of lemurs and apes.
Nature, LXXVI, 7-8.
See Standing, H F., 1907 B.
- 1911 A
The origin of mammals.
Nature, LXXXVIII, 293-294.
- 1912 A
Discussion on the origin of mammals.
Rep. Brit. Assoc. Adv. Sci., LXXXI, Portsmouth, 1911, 424-428.
- 1913 A
The evolution of man.
Rep. Smithsonian. Instn. for 1912, 553-572.
- 1915 A
Pre-Columbian representations of the elephant in America.
Nature, xcvi, 340-341, 1 fig.; 425, 501, 593, figs
- 1916 A
Pre-Columbian representations of the elephant in America.
Nature, xcvi, 593-595, figs. 2, 3.
- 1916 B
Further notes on pre-Columbian representations of the elephant in America.
Mem. Manchester Soc. (Proc.), LX, xx-xxiii pages.

- Smith, G. Elliot**—Continued 1920 A
Discussion on the zoological position and affinities of *Tarsius*.
Proc. Zool. Soc. Lond., 1919 (1920), 465-475, 1 fig.
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- 1922 A
Hesperopithecus: The ape-man of the western world.
London News, June 24, 1922, page 944 with figures. On the two preceding pages is a restoration of the creature by Forestier.
- Smith, George L.** 1915 A
The paleontology and stratigraphy of the Upper Carboniferous of Iowa.
Proc. Iowa Acad. Sci. xxii, 273-283.
- Smith, George Otis** 1903 A
Description of the Ellensburg quadrangle.
Folio U. S. Geol. Surv., lxxxvi, 1-7, maps.
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- 1904 A
Description of the Mount Stuart quadrangle.
Folio U. S. Geol. Surv., cvi, 1-10, maps.
- Smith, Hugh M.** 1916 A
Sharks—man eaters and others.
Amer. Mus. Jour., xvi, 341-355, 24 illustrations.
- Smith, J. Hays** 1900 A
Fish four-million years old.
Metrop. Mag., xii, 498-506, 8 illustrations.
- Smith, James P.** 1894 A
The metamorphic series of Shasta County, California.
Jour. Geol., ii, 589-612.
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- 1910 A
The geologic record of California.
Jour. Geol., xviii, 216-227.
- Smith, L. H.** 1901 A
The extinction of the elk in Ontario.
Ottawa Naturalist, xv, 95-97, 1 text-fig.
- Smith, Lucy Wright** 1914 A
The origin and development of the columella auris in *Chrysemys marginata*.
Anat. Anz., xlv, 547-560, 9 text-figs.
- Smith, Nathan** 1820 A
Fossil bones found in red sandstone.
Amer. Jour. Sci. (1), ii, 146-147.
Followed by a note of the editor.
- Smith, Warren Dupre, and Earl L. Packard** 1919 A
The salient features of the geology of Oregon.
Jour. Geol., xxvii, 79-120, pl. i, 3 figs., 1 table.
There is a bibliography of 60 titles.
- Smith, W. Ramsay** 1908 A
The evolution of man's teeth, founded upon a study of the development of the teeth of the Australian aboriginal.
Jour. Anat. Physiol. Lond., xlii, 126-131.
See also pages 226-235.
- Smith, W. S. Tangier** 1900 A
A topographic study of the islands of southern California.
Bull. Dept. Geol. Univ. Calif., ii, 179-230, pl. v, 4 text-figs.
- Snow, F. H.** 1878 A
On the dermal covering of a mosasauroid reptile.
Trans. Kansas Acad. Sci., vi, 54-58, 1 pl., 1 text-fig.
Also in Kansas City Rev. Sci. Indust., ii, 451-454.
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- 1887 A
On the discovery of a fossil bird-track in the Dakota sand-stone.
Abstract in Amer. Naturalist, xxii, 1888, 50.
Trans. Kan. Acad. Sci., x, 3-6, 1 text-fig.
- Sörensen, W.** 1894 A
What is, according to our present knowledge, the function of the Weberian ossicles.
Jour. Anat. Physiol. Lond., xxix, 109-139, 3 figs.
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- 1895 A
What is, according to our present knowledge, the function of the Weberian ossicles?
Jour. Anat. Physiol. Lond., xxxix (n.s. ix), 204-243, 399-423, 518-552, 14 figs.
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- 1897 A
Some remarks on Dr. Thilo's memoir on "Die Umbildungen an den Gliedmassen der Fische."
Morphol. Jahrb., xxv, 170-189, 6 text-figs.
- Soergel, Wolfgang** 1911 A
Die Pferde aus der Schotterterrasse von Steinheim a. d. Murr.
Neues Jahrb. Min. Geol. Pal., Beil. Bd., xxxii, 740-761, pls. xxxiii-xrv..

- Soergel, Wolfgang**—Continued 1913 A
Elephas trogontherii Pohl. und *Elephas antiquus* Falc., ihre Stammesgeschichte und ihre Bedeutung für die Gliederung des deutschen Diluviums.
 Palaeontogr., LX, 1-114, pls. i-iii, 8 tables, 14 text-figs.
 Abstracts in Neues Jahrb. Min. Geol. Pal., 1913, I, Ref., 350-351; Geol. Centralbl., xx, 314-316; Zeitschr. u. Abstamm. u. Vererb.-Lehre, x, 172-174; Rev. crit. Paléozool., xvii, 207-209; Jahresber. Anat. Entwickl. (N.F.), xviii, pt. 3, 213.
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- 1911 A
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- Thilo, Otto** 1879 A
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- 1896 A
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- 1896 B
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- 1898 A
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- 1898 B
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- 1899 A
Ueber die Vorfahren der Schollen.
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- 1900 A
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- 1900 B
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- 1888 C
Catalogue of the Marsupalia and Monotremata in the collection of the British Museum (Natural History).
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Proc. Biol. Soc. Wash., xv, 197-198.

1908 A

The missing premolar of the Chiroptera.

Ann. Mag. Nat. Hist. (8), i, 346-348.

1908 B

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Ann. Mag. Nat. Hist. (8), i, 1-8.

1911 A

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Ann. Mag. Nat. Hist. (8), xi, 585-589.

1911 B

The mammals of the tenth edition of Linnæus; an attempt to fix the types of the genera and the exact bases and localities of the species.

Proc. Zool. Soc. Lond., 1911, i, 120-158.

1914 A

On a remarkable case of affinity between animals inhabiting Guiana, W. Africa, and the Malay Archipelago.

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1915 A

The penis-bone, or baculum, as a guide to the classification of certain squirrels.

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1916 A

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Ann. Mag. Nat. Hist. (8), xviii, 301-303.

1916 B

On the grouping of South American Muridæ that have been referred to *Phyllotis*, *Euneomys*, and *Eligmodontia*.

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1918 A

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Proc. Zool. Soc. Lond., 1897 (1898), 814.

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Thompson, Alton Howard 1900 A

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Geol. Surv. Ind., xv, 154-159.

Thompson, William 1838 A

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Thompson, Wyville 1865 A

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Ann. Mag. Nat. Hist. (3), xv, 361-371, pl. xviii.

Thomson, Arthur 1902 A

The relation of structure and function as illustrated by the form of the lower epiphysal suture of the femur.

Jour. Anat. Physiol. Lond., xxxvi, 95-105, 3 text-figs.

Thomson, James 1872 A

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Ann. Mag. Nat. Hist. (4), x, 66-67.

1873 A

On the plagiostomous fishes of the Coal Measures, particularly *Orthacanthus dechenii*.

Trans. Geol. Soc. Glasgow, iv, 187-188.

Thomson, J. Stuart

1904 A

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Jour. Mar. Biol. Assoc. U. K. (n.s.), vii, 1-109, pls. 1-viii.

There is a bibliography of 49 titles.

Thornton, Thomas R.

1900 A

Mammoth tooth and relics in Missouri.

Pop. Sci., xxxiv, 198-199

Thorpe, Malcolm Rutherford 1920 A

New species of Oligocene (White River) Felidae.

Amer. Jour. Sci. (4), I, 207-224, 4 figs.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 119; Geol. Zentralbl., xxvii, 28.

Review in Rev. crit. Paléozoöl., xxvii, 37.

1921 A

John Day *Promerycochaeri*, with descriptions of five new species and one new subgenus.

Amer. Jour. Sci. (5), i, 215-244, figs. 1-6.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388; Rev. Géol. et Sci. conn., iv, 123; Geol. Zentralbl., xxvii, 29.

Review in Rev. crit. Paléozoöl., xxvii, 39.

1921 B

Leptauchenia Leidy and *Cyclopidius* (*Pitheciastes*) Cope, with descriptions of new and little known forms in the Marsh collection.

Amer. Jour. Sci. (5), i, 405-419, 6 figs.

There is a bibliography of 15 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388; Rev. Géol. et Sci. conn., iv, 1923, 120; Geol. Zentralbl., xxvii, 30.

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1921 C

Two new fossil Carnivora.

Amer. Jour. Sci. (5), i, 477-483, 5 figs.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 117; Geol. Zentralbl., xxvii, 508.

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1921 D

John Day eoporeodons, with descriptions of new genera and species.

Amer. Jour. Sci. (5), ii, 93-111, figs. 1-15.

There is a bibliography of 15 titles.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 122; Geol. Zentralbl., xxviii, 154; Neues Jahrb. Min. Geol. Pal., 1923, i, 317-319.

Review in Rev. crit. Paléozoöl., xxvii, 38

1921 E

Two new forms of *Agriochærus*.

Amer. Jour. Sci. (5), ii, 111-119, figs. 1-4.

The bibliography comprises 20 titles.

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Thorpe, Malcolm Rutherford—

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1921 F

A newly mounted *Eoporeodon*.

Amer. Jour. Sci. (5), ii, 309-313, pl. i, 3 figs.

Abstracts in Rev. Géol. et Sci. conn., v, 113; in Rev. crit. Paléozoöl., xxviii, 9, 1924; Geol. Zentralbl., xxviii, 154; Neues Jahrb. Min. Geol. Pal., 1923, i, 317-318.

1921 G

A new *Merycoidodon*.

Amer. Jour. Sci. (5), ii, 334-342, 2 figs.

There is a bibliography of 15 titles.

Abstracts in Rev. Géol. et Sci. conn., 111-112; in Rev. crit. Paléozoöl., xxviii, 7, 1924; Geol. Zentralbl., xxviii, 154; Neues Jahrb. Min. Geol. Pal., 1923, i, 319.

1922 A

A new generic name for *Phocyon marshi*.

Amer. Jour. Sci. (5), iii, 97.

Proposes *Aræocyon*.

Abstract in Rev. Géol. et Sci. conn., v, 119; in Rev. crit. Paléozoöl., xxviii, 14, 1924.

1922 B

A new genus of Oligocene Hyæodontidae.

Amer. Jour. Sci. (5), iii, 276-287, 2 figs.

There are 19 titles in the bibliography.

Abstracts in Rev. Géol. et Sci. conn., v, 120-121; in Rev. crit. Paléozoöl., xxviii, 15, 1924; Geol. Zentralbl., xxviii, 153.

1922 C

Oregon Tertiary Canidae, with descriptions of new forms.

Amer. Jour. Sci. (5), iii, 162-176, figs. 1-5

The bibliography consists of 22 titles.

Abstract in Rev. Géol. et Sci. conn., v, 116-117; in Rev. crit. Paléozoöl., xxviii, 12, 1924; Geol. Zentralbl., xxviii, 154.

1922 D

Aræocyon, a probable Old World migrant.

Amer. Jour. Sci. (5), iii, 371-377.

Abstracts in Rev. Géol. et Sci. conn., v, 119, in Rev. crit. Paléozoöl., xxviii, 14, 1924; Neues Jahrb. Min. Geol. Pal., 1923, i, 311; Geol. Zentralbl., xxix, 251.

1922 E

Some Tertiary Carnivora in the Marsh collection, with descriptions of new forms.

Amer. Jour. Sci. (5), iii, 423-455, figs. 1-12.

There are 45 titles in the bibliography.

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Thorpe, Malcolm Rutherford—

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Carnivora.

Amer. Jour. Sci. (5), v, 23-39.
Abstract in Geol. Zentralbl., xxix, 251.

1923 B

New species of Uinta Carnivora
from White River, Utah.

Amer. Jour. Sci. (5), v, 218-224, figs. 1-4
Abstracts in Neues Jahrb. Min. Geol. Pal.,
1924, i, 124; Geol. Zentralbl., xxix, 350.

1923 C

The hyoid apparatus of *Merycoido-*
don.

Amer. Jour. Sci. (5), v, 225-229, fig. 1.
Abstracts in Geol. Zentralbl., xxix, 350;
xxx, 350.

1923 D

New reconstructions in the Yale
Peabody Museum.

Amer. Jour. Sci. (5), vi, 91-99.
Abstract in Geol. Zentralbl., xxx, 442;
Nature, cxxii, 522.

1923 E

The primitive and carnivore-like
characters of the Merycoidodontidæ.

Amer. Jour. Sci. (5), vi, 239-246.
Abstract in Geol. Zentralbl., xxx, 538.

1924 A

Additional notes on *Oreodontoides*
oregonensis Thorpe.

Amer. Jour. Sci. (5), vii, 316-318, 3 figs.
Abstract in Geol. Zentralbl., xxxi, 416.

1924 B

White River (Oligocene) eporeodonts.

Amer. Jour. Sci. (5), vii, 219-226.
Abstract in Geol. Zentralbl., xxxi, 415.

1924 C

A new species of extinct peccary
from Oregon.

Amer. Jour. Sci. (5), vii, 393-397, 4 figs.
The bibliography comprises 14 titles.
Abstract in Geol. Zentralbl., xxxi, 415.

1924 D

The generic distinctions between
Merycochærus Leidy and *Promeryco-*
chærus Douglass.

Amer. Jour. Sci. (5), vii, 121-131.
Abstract in Geol. Zentralbl., xxx, 350.

1925 A

The geological history of the oreo-
donts.

Jour. Mamm., vi, 69-82, pls. vi, vii, 5
text-figs.

Thyng, F. W.

1906 A

Squamosal bone in tetrapodous
Vertebrata.

Tufts Coll. Stud., ii, 35-73, pls. xxxix-xli,
20 text-figs.

The extensive bibliography occupies 68-73.
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387-425, pls. xxxix-xli.

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(N.F.), xii, pt. 3, 78.

Tichomirow, A.

1885 A

Zur Entwicklung des Schädels bei
den Teleostiern.

Zool. Anz., viii, 533-537.

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Tichomiroff.

1902 A

Zur näheren Kenntnis des *Equus*
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Tilesius, Wilhelm Gottlieb 1815 A

De skeleto mammonteo sibirico ad
maris glacialis littora anno 1807
effosso, cui præmissæ elephantini
generis specierum distinctiones.

Mém. Acad. Sci. St. Pétersb., v, 406-513,
pls. xi, xii.

Tilton, John L.

1910 A

The age of the terrace south of
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Science (n.s.), xli, 950 (Abstract).

1911 A

The Pleistocene deposits in Warren
County, Iowa.

Dissertation, University of Chicago, i-iv+
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1915 A

The age of the terrace south of Des
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236, pls. xxvi, xxvii, 1 text-fig.

1926 A

Permian vertebrates from West Vir-
ginia.

Bull. Geol. Soc. Amer., xxxvii, 239 (Ab-
stract).

1926 B

Permian vertebrates from West Vir-
ginia.

Bull. Geol. Soc. Amer., xxxvii, 385-394, 2
figs.

Tims, H. W. M.

1901 A

Tooth-genesis in the Caviidæ.

Jour. Linn. Soc. Zool., xxviii, 261-290,
pl. xxvi, 7 text-figs.

Appended is a bibliography of 14 titles.

- Tims, H. W. M.**—Continued 1902 A
On the succession and homologies of the molar and premolar teeth in the Mammalia.
Jour. Anat. Physiol. Lond., xxxvi, 321-343.
- 1903 A
The evolution of the teeth in the Mammalia.
Jour. Anat. Physiol. Lond., xxxvii, 131-149, 5 text-figs.
- 1905 A
The development, structure, and morphology of the scales in some teleostean fish.
Quart. Jour. Micr. Soc. (n.s.), xlix, 39-68, pl. vi
There is a bibliography of 21 titles.
- 1905 B
The dentition of mammals with reference to that of man.
Jour. Amer. Med. Assoc., xlv, 1784-1787, 11 figs.
- 1908 A
Tooth-vestiges and associated mouth-parts in the Manidæ.
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Origin of mammals.
Nature, lxxxviii, 294.
- Tissandier, G.** 1877 A
Reconstitution d'un mammouth fossilé.
Bull. Assoc. Sci. France, xx, 139-141.
- Todd, J. E.** 1880 A
On the remains of an elephant found near Glenwood, Iowa.
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Evidence that Lake Cheyenne continued till the Ice Age.
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Records finding of *Megalonyx* in Mills County, Iowa.
- 1894 A
A preliminary report on the geology of South Dakota.
Bull. S. Dakota Geol. Surv., i, 1-172, with map.
- 1896 A
Formation of the Quaternary deposits.
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- Todd, J. E.**—Continued 1899 A
The moraines of southeastern South Dakota and their attendant deposits.
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- 1908 A
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Bull. S. Dak. Geol. Surv., iv, 13-76, 31 pls., Appendix A, 193-195.
- 1918 A
Kansas during the Ice Age.
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- Todd, T. Wingate** 1922 A
Numerical significance in the thoracicolumbar vertebræ of the Mammalia.
Anat. Record, xxiv, 261-286
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- Toepelmann, Walter C.** 1916 A
Phytosaur remains from New Mexico.
Quart. Bull. Univ. Oklahoma (n.s.), No. ciii, 40-44, pls. 1-iii, text-figs. 15, 16.
- Törne, Oskar** 1913 A
Über das knorpelige Accessorium der Vespertilionidenhand.
Morphol. Jahrb., xlv, 431-440, 5 figs.
The bibliography presents 10 titles.
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- Toldt, C.** 1904 A
Der Winkelfortsatz des Unterkiefers beim Menschen und bei den Säugetieren und die Beziehungen der Kaumuskeln zu demselben.
Sitz-Ber. Akad. Wiss. Berlin, cxiii, 43-108, pls. 1-iii.
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- 1927 A
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Quart. Jour. Micr. Sci. (n.s.), xiv, 44-48.
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Proc. Roy. Soc. Lond., xxiii, 93-95.
- 1875 B
On the structure and development of the teeth of Ophidia.
Proc. Roy. Soc. Lond., xxiii, 95-96.
- 1875 C
On the development of the teeth of fishes (Elasmobranchii and Teleostei).
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- 1876 A
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Phil. Trans. Roy. Soc. Lond., clxvi, 257-267, pl. xxxi.
- 1876 B
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Phil. Trans. Roy. Soc. Lond., clxvi, 377-385, pl. xxxvii, 1 text-fig.
- 1877 A
On the structure and development of vascular dentine.
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- 1898 B
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- 1898 C
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- 1900 A
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Ueber den Säugetier-Præhallux.
Ein dritter Beitrag zur Phylogenese des Säugetierfusses.
Arch. Naturges., lviii, i, 113-204, pl. vii.
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- 1894 B
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- 1903 A
Entstehn von Vorderfuss-Hyperdactylie bei *Cervus*-Arten.
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- 1908 A
Gibt es bei Wiederkäuern und Pferden einen Zehenatavismus?
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1908, 195-196.
- 1909 A
Wie war der *Diplodocus carnegii* wirklich gebaut?
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1909, 193-209, pl. ii, 6 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1910, ii, Ref., 294; Nature, lxxxiii, 166; Sci. Progress, iv, 667.

Tornier, Gustav—Continued 1909 B

Ernstes und Lustiges aus Kritiken
über meine *Diplodocus*-Arbeit.

Sitz.-Ber. Ges. naturf. Freunde Berlin,
1909, 193-209, pl. n, 6 text-figs

Abstracts in Neues Jahrb. Min. Geol. Pal.,
1910, Ref., n, 294; Sci. Progress, iv, 667

1909 C

War der *Diplodocus* elefantenfüßig?

Sitz.-Ber. Ges. naturf. Freunde Berlin,
1909, 536-557, 19 text-figs.

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1910, n, Ref., 295; Geol. Centralbl., xv, 506,
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143; Sci. Progress, iv, 667

1910 A

Über und gegen neue *Diplodocus*-
Arbeiten.

Zeitschr. deutsch. Geol. Ges., LXII, Mo-
natsb., 536-576, 12 text-figs

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1910 B

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Stellung usw. von Fr. Drevermann."

Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910,
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1910 C

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1913 A

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1904 A

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1902 A

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1905 A

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pl. iii, 11 text-figs

1908 A

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Bodenbach in Böhmen.

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280, pls. viii-x, 4 text-figs.

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1899 C

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Trans. Roy. Soc. Edinb., xxxix, 595-602, pl. xxxix.

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1899 D

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1900 C

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1903 A

The Lower Devonian fishes of Gemünden.

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1904 A

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1905 A

Notes on the Lower Carboniferous fishes of eastern Fifeshire.

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1907 A

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Palæontogr. Soc. Mon., vol. for 1907, 87-106, pls. xix-xxiii, 3 text-figs.

A continuation of Traquair, R. H., 1904 A

1908 A

Report on the fossil fishes collected by the Geological Survey of Scotland from shales exposed on the shore near Gullane, East Lothian.

Trans. Roy. Soc. Edinb., xlvi, 103-117, pls. i-ii, 2 text-figs.

Issued separately Dec 21, 1907

1908 B

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1909 A

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1911 A

Les poissons wealdiens de Bernisart.

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- Traquair, Ramsay H.**—Cont'd 1911 B
The ganoid fishes of the British Carboniferous formations. Pt. I, No. 5: Palæoniscidæ.
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A continuation of Traquair, R H., 1909 A
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- 1897 A
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- 1897 B
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- 1903 A
Réapparition du Grand Serpent de mer.
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- 1904 A
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- 1905 A
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Trouessart, E. L.—Continued 1906 A
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1907 A

Sur les rapports des lémurien fossiles de France avec ceux de Madagascar, et sur l'origine diphyllétique des lémurien actuels.

C. R. Soc. Biol., lxii, 125-127

1913 A

Le cheval existait-il en Amérique à l'époque de la découverte du Nouveau Continent?

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Troxell, Edward L. 1915 A

The vertebrate fossils of Rock Creek, Texas.

Amer. Jour. Sci. (4), xxxix, 613-638, pl. ix, 24 text-figs.

Abstracts in Rev. crit. Paléozool., xxiv, 91-92; Geol. Zentralbl., xxv, 328.

1915 B

A fossil ruminant from Rock Creek, Texas, *Preptoceras mayfieldi* sp. nov.

Amer. Jour. Sci. (4), xl, 479-482, 3 text-figs.

Abstract in Geol. Zentralbl., xxv, 271

1916 A

An early Pliocene one-toed horse, *Pliohippus lullianus* sp. nov.

Amer. Jour. Sci. (4), xlii, 335-348, 7 text-figs.

Abstracts in Bull. Geol. Soc. Amer., xxvii, 151-152; Geol. Zentralbl., xxv, 270.

1916 B

Oligocene fossil eggs.

Jour. Wash. Acad. Sci., vi, 422-425, text-figs. 1-5.

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1917 A

Fossil hunting in Texas.

Scient. Monthly, iv, 81-89, figs. 1-9.

1917 B

An Oligocene camel, *Pæbrotherium andersoni* n. sp.

Amer. Jour. Sci., xliii, 331-339, figs. 1-6

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, 388; Geol. Zentralbl., xxv, 43.

1917 C

An Oklahoma Pleistocene fauna.

Bull. Geol. Soc. Amer., xxviii, 212-213 (Abstract).

Troxell, Edward L.—Continued 1920 A

A tiny artiodactyl, *Hypisodus alacer* sp. nov.

Amer. Jour. Sci. (4), xlix, 391-396, 4 figs.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 123; Geol. Zentralbl., xxviii, 154, Neues Jahrb. Min. Geol. Pal., 1923, i, 317-318

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1920 B

Entelodonts in the Marsh collection.

Amer. Jour. Sci. (4), i, 243-255, 361-386, 431-445, plate iii, text-figs.

The bibliography (pages 245-247) presents 35 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388, Rev. Géol. et Sci. conn., iv, 1923, 122-123; Geol. Zentralbl., xxvii, 28; Nature, cviii, 482

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1920 C

Review of Peterson's "The American diceratheres."

Amer. Jour. Sci. (4), i, 396-397

1921 A

The nature of a species in paleontology and a new kind of type specimen.

Jour. Geol. xxix, 475-479

1921 B

The American bothriodonts.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 388, Rev. Géol. et Sci. conn., iv, 1923, 122; Geol. Zentralbl., xxvii, 30.

Review in Rev. crit. Paléozool., xxvii, 39

1921 C

Palaeolagus, an extinct hare.

Amer. Jour. Sci. (5), i, 340-348, figs. 1-20.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, ii, Ref., 386; Rev. Géol. et Sci. conn., iv, 1923, 122, Geol. Zentralbl., xxvii, 30

1921 D

New amynodonts in the Marsh collection.

Amer. Jour. Sci. (5), ii, 21-34, figs. 1-7

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 125-126; Neues Jahrb. Min. Geol. Pal., 1923, i, 314-316.

Review in Rev. crit. Paléozool., xxvii, 43.

1921 E

New species of *Hyracodon*.

Amer. Jour. Sci. (5), ii, 34-40, figs. 1-5.

Abstracts in Rev. Géol. et Sci. conn., iv, 1923, 124-125, Neues Jahrb. Min. Geol. Pal., 1923, i, 314-316.

Review in Rev. crit. Paléozool., xxvii, 42.

Troxell, Edward L.—Continued 1921 F*Camopus*, the ancestral rhinoceros.

Amer. Jour. Sci. (5), II, 41-51, figs. 1-6

Abstracts in Rev. Géol. et Sci. conn., IV, 1923, 124-125; Geol. Zentralbl., XXVII, 382; Neues Jahrb. Min. Geol. Pal., 1923, I, 314-316

Review in Rev. crit. Paléozool., XXVII, 41

1921 GA study of *Diceratherium* and the diceratheres.

Amer. Jour. Sci. (5), II, 197-208, figs. 1-6

Abstracts in Rev. Géol. et Sci. conn., V, 115; in Rev. crit. Paléozool., XXVIII, 10, 1924; Geol. Zentralbl., XXVII, 184; Neues Jahrb. Min. Geol. Pal., 1923, I, 314-316

1922 AOligocene rodents of the genus *Ischyromys*.

Amer. Jour. Sci. (5), III, 123-130, 7 text-figs

Abstracts in Rev. Géol. et Sci. conn., V, 115-116; in Rev. crit. Paléozool., XXVIII, 11, 1924; Geol. Zentralbl., XXVIII, 154

1922 BThe status of *Homogalax*, with two new species.

Amer. Jour. Sci. (5), III, 288-292, 4 figs.

Abstracts in Rev. Géol. et Sci. conn., V, 113-114; in Rev. crit. Paléozool., XXVIII, 8, 1924; Geol. Zentralbl., XXVIII, 155; Neues Jahrb. Min. Geol. Pal., 1923, I, 314.

1922 C*Helaletes* redefined.

Amer. Jour. Sci. (5), III, 365-370, 3 figs

Abstracts in Rev. Géol. et Sci. conn., V, 114; in Rev. crit. Paléozool., XXVIII, 10, 1924; Neues Jahrb. Min. Geol. Pal., 1923, I, 313; Geol. Zentralbl., XXIX, 222

1922 D

Horned Eocene ungulates.

Amer. Jour. Sci. (5), IV, 31-37, figs. 1-5.

Abstracts in Rev. Géol. et Sci. conn., V, 114; in Rev. crit. Paléozool., XXVIII, 9, 1924; Geol. Zentralbl., XXIX, 251.

1922 EThe genus *Hyrachyus* and its subgroups.

Amer. Jour. Sci. (5), IV, 38-48, pl. 1, 5 text-figs

Abstracts in Rev. Géol. et Sci. conn., V, 114; in Rev. crit. Paléozool., XXVIII, 9, 1924; Neues Jahrb. Min. Geol. Pal., 1923, II, 155; Geol. Zentralbl., XXIX, 251.

1923 A

Review of Schlesinger on "Mastodonten der Budapester Sammlungen."

Amer. Jour. Sci. (5), V, 88-89

Troxell, Edward L.—Continued 1923 B*Pauromys perditus*, a small rodent.

Amer. Jour. Sci. (5), V, 155-156, 1 fig

Abstracts in Neues Jahrb. Min. Geol. Pal., 1924, I, 402; Geol. Zentralbl., XXIX, 156

1923 C*Diplolophus*, a new genus of rodents.

Amer. Jour. Sci. (5), V, 157-159, 5 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1924, I, 402; Geol. Zentralbl., XXIX, 156.

1923 DThe Eocene rodents *Scuravus* and *Tallomys*.

Amer. Jour. Sci. (5), V, 383-396, 22 figs

The bibliography presents titles of 10 papers

Abstract in Geol. Zentralbl., XXX, 24.

1923 E

The Apatemyidae.

Amer. Jour. Sci. (5), V, 503-506, 6 figs.

1923 F

A new marsupial.

Amer. Jour. Sci. (5), V, 507-510, 4 figs.

Review in Rev. crit. Paléozool., XXVIII, 167, 1924

1923 GAmerican rhinoceroses and the evolution of *Diceratherium*.

Bull. Geol. Soc. Amer., XXXIV, 134 (Abstract)

1925 A*Thoracosaurus*, a Cretaceous crocodile.

Amer. Jour. Sci. (5), X, 219-223, 6 figs.

1925 B

The Bridger crocodiles.

Amer. Jour. Sci. (5), IX, 29-72 22 text-figs

There are 18 titles in the bibliography.

1925 C*Hyposaurus*, a marine crocodilian.

Amer. Jour. Sci. (5), IX, 489-514, 15 figs.

1925 D

Mechanics of crocodile vertebrae.

Bull. Geol. Soc. Amer., XXXVI, 605-614, 6 figs

1926 A*Smilodectes* or *Notharctus*.

Amer. Jour. Sci. (5), XI, 423-428, 3 figs.

True, F. W.**1884 A**

A muskrat with a round tail.

Science (O.S.), IV, 24

Describes *Neofiber alleni*; new genus, new species**1884 B**On a new muskrat, *Neofiber alleni*, from Florida.

Proc. U. S. Nat. Mus., VII, 170-172.

True, F. W.—Continued

1904 A

The whalebone whales of the western North Atlantic, compared with those occurring in European waters, with some observations on the species of the North Pacific.

Smithson. Contrib. Knowl., xxxiii, 1-vii+1-332 pages, 50 pls., 97 text-figs.

There is a bibliography of 92 titles.

1905 A

Diagnosis of a new genus and species of fossil sea-lion from the Miocene of Oregon.

Smithson. Misc. Coll. (Quart.), xlviii, 47-49

Abstracts in Geol. Centralbl., viii, 372; Knowl. Scient. News, ii, 230.

1905 B

New name for *Pontoleon*.

Proc. Biol. Soc. Wash., xviii, 253.

Proposes *Pontolis*

1905 C

The first discovery of fossil seals in America.

Science (n.s.), xxii, 794.

Abstract in Geol. Centralbl., viii, 373.

1906 A

Description of a new genus and species of fossil seal from the Miocene of Maryland.

Proc. U. S. Nat. Museum, xxx, 835-840, pls. lxxv, lxxvi.

Describes *Leptophoca lenis* and discusses the genera and species of extinct Phocidæ

Abstracts in Neues Jahrb. Min. Geol. Pal., 1909, i, Ref., 439-440; Geol. Centralbl., xi, 370; Sci. Progress, i, 452; Rev. crit. Paléozoöl., x, 202.

1907 A

Remarks on the type of the fossil cetacean *Agorophus pygmaeus*.

Smithson. Instn. Publ. No. 1694, 1-8, pl. vi.

The plate illustrating this folio paper was prepared for Prof. Louis Agassiz, but was not published by him. It is entitled *Phocodon holmesii* Agass.

Abstract in Sci. Progress, ii, 512.

1907 B

Observations on the type specimen of the fossil cetacean *Anoplomassa forcipata* Cope.

Bull. Mus. Comp. Zool., li, 95-106, pls. i-iii.

Abstracts in Sci. Progress, ii, 512; Rev. crit. Paléozoöl., xiv, 5.

True, F. W.—Continued

1908 A

Remarks on the fossil cetacean *Bhabdosteus latiradix* Cope.

Proc. Acad. Nat. Sci. Phila., lx, 24-29, pl. vi, 3 text-figs.

Abstracts in Sci. Progress, iii, 457; Rev. crit. Paléozoöl., xiv, 7, xv, 85

1908 B

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1908 C

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1911 A

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Anat. Hefte, Arb., xlv, 93-225, pls. A-C. The bibliography presents 60 titles. Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 86-89.

1916 A

Zur Theorie des Wirbeltierkopfes.

Anat. Anz., xlix, 368-376.

In the bibliography are 13 titles.

1924 A

Entwicklungsgeschichte und vergleichende Anatomie in ihren Wechselbeziehungen zueinander, erörtert an dem Problem des Wirbeltierkopfes.

Anat. Anz., lviii, 374-393, 7 figs.

The bibliography presents 30 titles.

Veith, A.

1912 A

Beiträge zum Studium der Maxillarbezahnung der Hippiden.

Arch. Naturges., lxxviii, Abt. A, Heft 5, 1-33, pls. 1, II.

On pages 31-33 is a bibliography of 72 titles.

Versluys, Jan

1898 A

Die mittlere und äussere Ohrsphäre der Lacertiden.

Zool. Jahrb. Anat., xii, 160-406, pls. x-xvii.

The bibliography occupies pages 391 to 395.

1903 A

Entwicklung der Columella auris bei den Lacertiliern. Ein Beitrag zur Kenntnis der schalleitenden Apparate und des Zungenbeinbogens bei den Sauropsiden.

Zool. Jahrb. Anat., xix, 107-188, pls. viii-xi, 10 text-figs.

Pages 351-356 are occupied by an extensive bibliography.

Versluys, Jan—Continued

1908 A

Parasphenoid bij *Dermochelys coriacea* Linn.

Tijdschr. Nederl. Dierk. Vereen. (2), x, Versl., xviii-xix.

Printed in Dutch.

1909 A

Ein grosses Parasphenoid bei *Dermochelys coriacea* Linn.

Zool. Jahrb. Anat., xxviii, 283-294, 3 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, 81.

1910 A

Bemerkungen zum Parasphenoid von *Dermochelys*.

Anat. Anz., xxxvi, 487-495.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 84.

1910 B

Streptostylie bei Dinosauriern, nebst Bemerkungen über die Verwandtschaft der Vögel und Dinosaurier.

Zool. Jahrb. Anat., xxx, 175-260, pl. xii, 25 text-figs.

See Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 325-326; Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 84-87, for abstracts.

1910 C

Waren die sauropoden Dinosaurier Pflanzenfresser?

Zool. Jahrb. Syst., xxix, 425-450, pl. xvii, 10 text-figs.

The bibliography comprises 32 titles.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, I, Ref., 149-150, Sci. Progress, vi, 570.

1911 A

Berichtigung zu Fuchs' Aufsatz: Bemerkungen über Monimostylie und Streptostylie.

Anat. Anz., xxxviii, 137-144.

See Fuchs, H., 1910 B.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 89.

1912 A

Über Streptostylie und ähnliche Zustände bei Sauropsiden, in Zusammenhang mit Bewegungen im Schädel.

Verh. internat. Zool.-Kongr., Graz, 1910, 490-503, 5 text-figs.

Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 89.

- Versluys, Jan**—Continued 1912 B
Das Streptostylie-Problem und die Bewegungen im Schädel bei Sauropsiden.
Zool. Jahrb. Anat., Suppl. 15, II, 545-714, pl. xxxi, 77 text-figs.
Abstract in Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 263-266; Jahresber. Anat. Entwickl. (N.F.), XVIII, pt. 3, 111-116.
- 1912 C
Amphibia.
Handwörterbuch der Naturwissenschaften (Gustav Fischer, Jena), I, 313-338, 23 figs.
- 1914 A
On the phylogeny of the carapace, and on the affinities of the leathery turtle, *Dermochelys coriacea*.
Rep. Brit. Assoc. Adv. Sci., LXXXIII, Birmingham, 1913, 791-807, 9 text-figs.
- 1914 B
Über die Phylogenie des Panzers der Schildkröten und über die Verwandtschaft der Lederschildkröte (*Dermochelys coriacea*).
Palaeont. Zeitschr., I, 321-347, 10 text-figs.
There is a bibliography of 37 titles.
Abstract in Geol. Zentralbl., xxv, 182.
- 1919 A
Über die Phylogenie der Schläfen gruben und Jochbogen bei den Reptilia.
Sitz.-Ber. Heidelb. Akad. Wiss., 1919 Abh. 13, 1-29, 19 figs.
- 1922 A
Die Kaubewegungen von *Trachodon*.
Palaeont. Zeitschr., IV, 80-87; 92, 6 figs.
Abstract in Geol. Zentralbl., xxxii, 118.
- 1922 B
Ueber die Rückbildung der Kiemenbogen bei den Selachii.
Bydr. Dierk. Amsterdam, xxii (Feestnum. Max Weber), 95-105, 7 text-figs.
The bibliography comprises 63 titles.
- 1922 C
Eine lebende Anosteiride, *Carettochelys insculpta* Ramsay.
Palaeont. Zeitschr., v, 97-99, 1 fig.
Abstract in Geol. Zentralbl., xxxii, 181.
- 1923 A
Der Schädel des Skelettes von *Trachodon annectens* im Senckenberg Museum.
Abh. Senckenb. naturf. Ges., xxxviii, 1-19, pls. i-iv, 2 text-figs.
There is a bibliography of 42 titles.
- 1925 A
Remark on *Muraenidae*.
Palaeont. Zeitschr., vii, 166.
- Versluys, Jan**—Continued 1925 B
Remarks on irreversibility in evolution.
Palaeont. Zeitschr., vii, 182.
- Vettuch, C.** 1803 A
Einige Bemerkungen über das Skelett des unbekannten Quadrupeds vom Plata-Strome (*Megatherium americanum*).
Voigt's Mag. Naturk., v, 530-534, pl. xii.
- Vialleton, L.** 1916 A
Développement et fonctions des griffes de l'aile chez les oiseaux. Leur rôle probable chez l'*Archaeopteryx*.
Ann. Mus. hist. nat. Marseille, xiv, Mém. No. 6, 1-26, 8 figs.
The bibliography comprises 19 titles.
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Rapports ontogéniques des ceintures pelviennes et thoraciques chez les vertébrés tétrapodes.
C. R. Acad. Sci. Paris, clxv, 190-192.
- 1919 A
Epiphyses et cartilage de conjugaison des sauropsidés.
C. R. Acad. Sci. Paris, clxix, 306-308.
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Quadrupèdes.
Encyclop. Méthod. Syst. Anat., II, 1-clxiv +1-632 pages.
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Mammifères.
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Monografia dei *Pristis* fossili con la descrizione di una nuova specie del calcare miocenico di Lecce.
Atti Accad. Sci. Napoli (2), IV, Append. No. 3, 1-28, 1 pl.
- Vigers, Nicholas A.** 1825 A
Observations on the natural affinities that connect the orders and families of birds.
Trans. Linn. Soc. Lond., xiv, 395-517.
Reprinted in Iuss von Oken, 1827, cols. 924-958.
- Villada, Manuel M.** 1903 A
Apuntes acerca de la fauna fósil del Valle de Mexico.
An. Mus. Nac. Mexico, vii, 441-451, pls. i-viii.

- Villiers, Cornelius G. S.** 1922 A
Neue Beobachtungen über den Bau und die Entwicklung des Brustschulterapparates bei den Anuren, insbesondere bei *Bombinator*.
Acta Zool., III, 153-225, 27 figs.
The bibliography presents 67 titles.
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Ueber die Schwanzbildung bei Selachiern.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1895, 105-120.
- 1907 A
Die Wirbelsäule des Löwen, nach Form zusammengesetzt.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1907, 43-69, 8 text-figs.
- 1909 A
Die sagittale Flexion am Hinterhauptsgelenk von Säugetieren.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1909, 418-437, 9 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xv, pt. 3, 91.
- 1910 A
Die Wirbelsäule von *Ursus americanus* nach Form zusammengesetzt.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 10-19, 1 text-fig.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 107.
- 1910 B
Hand und Fuss des Elefanten, nach Form zusammengesetzt.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 77-87, 6 text-figs.
- 1910 C
Über die sagittal-flexorische Bewegung im Hinterhauptsgelenk des Elefanten.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 131-135, 4 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xvii, pt. 3, 90.
- 1910 D
Ueber einen Fugenknochen im Epistropheus des Elefanten.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 251-253, 2 text-figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 108.
- 1910 E
Die Wirbelsäule von *Hydrochaerus capybara* nach Form zusammengesetzt.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 253-265, 1 text-fig.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 108.
- Virchow, Hans**—Continued 1910 F
Die sagittale Flexion am Hinterhauptsgelenk von Rind und Pferd.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 265-269, 2 text-figs.
- 1910 G
Die Schneidezähne im Unterkiefer des Rindes nach Form eingesetzt.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1910, 269-273, 3 text-figs.
- 1910 H
Die Wirbelsäule des abessinischen Nashorns (*Buceros bicornis*) nach Form zusammengesetzt.
Sitz.-Ber. Akad. Wiss. Berlin, 1910, 848-864, 9 figs.
Abstract in Jahresber. Anat. Entwickl. (N.F.), xvi, pt. 3, 107.
- 1913 A
Wirbelsäule und Rotatoren der Bären.
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Abstract in Jahresber. Anat. Entwickl. (N.F.), xix, pt. 3, 130-133.
- 1914 A
Mechanik der Wirbelsäule des *Varanus varus*.
Arch. Anat. Entwickl., 69-89, 10 text-figs.
- 1914 B
Über die Alligatorwirbelsäule.
Arch. Anat. Entwickl., 1914, 103-143, 18 text-figs.
- 1914 C
Ueber die Gelenkfortsätze der Wirbelsäule.
Anat. Anz. Ergänzungs., xlv, 129-136.
- 1914 D
Modelle einiger functionell besonders charakteristischer Wirbelverbindungen.
Sitz.-Ber. Ges. naturf. Freunde Berlin, 1914, 318-323, 7 figs.
- 1916 A
Die Wirbelsäule des Strausses.
Arch. Anat. Physiol. Leipzig, 1915 (1916), 212-244, 5 figs.
- 1916 B
Bewegungsmöglichkeiten der Wirbelsäule des Flamingo.
Arch. Anat. Physiol. Leipzig, 1915 (1916), 245-254, 5 figs.

- Virchow, Hans**—Continued 1916 C
Über die Bewegungsmöglichkeiten an der Wirbelsäule und am Thorax des wilden Kaninchens.
Arch. Anat. Physiol. Leipzig, 1915 (1916), 255-264.
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Über das Gebiss von *Didelphys cancrivora*.
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- 1917 B
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- 1918 A
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Sitz.-Ber. Ges. naturf. Freunde Berlin, 1918, 105-132, 11 figs.
- 1918 B
Über die Wirbelsäule des Bibers.
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- 1919 A
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L'articolazione mandibolare negli anfibi nei rettili e negli uccelli.
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Über das Stamm-, Ghedmassen- und Hautskelet von *Dermochelys coriacea* L.
Zool. Jahrb. Anat., xxxiii, 431-552, pls xxx-xxxii, 3 text-figs.
The bibliography occupies pages 543-549.
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Beiträge zur Entwicklungsgeschichte der Reptilien. Biologie und Entwicklung der äusseren Körperform von *Crocodylus madagascariensis* Grand.
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Pp. 111-149 are occupied by the bibliography.
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Abh. Senckenb. naturf. Ges., xxvi, 313-336, pls xxx, xxxi, 1 text-fig.
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There is a bibliography of 27 titles.
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Archegosaurus ist kein Batrachier, doch ein Amphibium.
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L'Archæopteryx macroura—Un intermédiaire entre les oiseaux et les reptiles.
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- 1909 B
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1837.
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1913 C
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1913 E
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Anat. Anz., XLIV, 210-214, 3 text-figs.
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1913 F
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1914 A
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1914 G
Broomia perplexa gen. et. sp. n., a fossil reptile from South Africa.

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1914 H
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1914 I
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1914 J
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1914 K
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1916 A
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Phil. Trans. Roy. Soc. Lond., CCVII, B, 311-374, pls. XXXIII-XXV, 19 text-figs.

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1916 B
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1916 D
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Bull. Amer. Mus. Nat. Hist., XXXV, 637-648, 7 figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1921, I, Ref., 360; Geol. Zentralbl., XXIX, 188.

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1917 B
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The structure, evolution, and origin of the Amphibia.
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- 1919 C
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- 1921 B
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- 1921 C
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1901 B

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1902 A

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Amer Jour Sci (4), xiii 276-278, 1 text-fig

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1902 B

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Amer Jour Anat, i, 297-305, plate

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1902 C

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1902 D

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1902 F

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1902 G

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1902 H

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Science (n s), xv, 67-68

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1902 I

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1902 J

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Science (n s), xvi, 195-196

1902 K

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1902 L

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1902 M

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1902 N

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- **1903 C**
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 Science (n s), xvii, 980
- **1903 D**
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- **1904 B**
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- **1904 C**
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- **1904 D**
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- **1904 E**
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- **1905 C**
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- **1905 D**
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1908 A

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1908 B

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- Jour Geol, xvi, 395-400, 2 figs
 Abstracts in Neues Jahrb Min Geol Pal, 1909, II, Ref. 123-124; Geol Centralbl, XII, 593, Sci Progress, III, 469, Rev crit Paléozool, XIII, 81

1908 C

North American plesiosaurs: *Trinacromerum*.

- Jour Geol, xvi, 715-736 figs 1-15
 Abstracts in Neues Jahrb Min Geol Pal, 1909, I, Ref. 441-442 Geol. Centralbl, XIII, 244-245 Rev crit Paléozool, XIII, 81

1908 D

***Lysorophus*, a Permian urodele.**

- Biol Bull, xv, 229-240 figs 1-5
 Abstracts in Neues Jahrb Min Geol Pal, 1909, II, Ref. 124-125 Rev crit Paléozool, XIII, 82, Jahresber Anat Entwickl (NF), XIV, pt 3, 159

1908 E

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- Science (ns), XXVII, 726-727

1908 F

A new group of Permian amphibians.

- Science (ns), XXVIII, 316, 317

1908 G

The fossil turtles of North America.

- Science (ns), XXVIII, 803, 804
 A review of Hay, O P, 1908 A

1908 H

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- Ann. Carnegie Mus., IV, 163-164

1908 I

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- Amer Naturalist, XLII, 628-629
 Review and criticism of Case, E. C. 1907 E

1908 J

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- Amer Naturalist, XLII, 629-630
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- Jour Geol, xvii, 389-402.
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1909 B

New or little known Permian vertebrates; *Trematops*, new genus.

- Jour. Geol., xvii, 636-658, 7 figs
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1909 C

New or little known Permian vertebrates: *Parotichus*.

- Biol Bull, xvii, 241-255, 6 figs
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1909 D

The skull and extremities of *Diplocaulus*.

- Trans Kansas Acad Sci, XXII, 122-131, plates 1-v
 Abstracts in Neues Jahrb Min Geol Pal, 1910, II, Ref. 467-468, Geol Centralbl, XV, 218

1909 E

Communications and remarks before American Society of Vertebrate Paleontologists.

- Science (ns), XXIX, 194, 195, 198

1910 A

***Cacops*, *Desmospondylus*: new genera of Permian vertebrates.**

- Bull Geol Soc Amer, XXI, 249-284, pls VI-XVII
 Abstracts in Neues Jahrb Min Geol Pal, 1910, II, Ref., 471-473, Geol Centralbl, xv, 651, Sci Progress, v, 688-689, pl; Rev crit. Paléozool, xv, 31-32

1910 B

The skull of *Labidosaurus*.

- Amer Jour Anat, x, 69-81, plates 1-III
 Abstract in Neues Jahrb Min Geol Pal, 1910, II, Ref. 469-470. Jahresber Anat. Entwickl (NF), XVI, pt 3, 89

1910 C

The occurrence of a sauropod dinosaur in the Trinity Cretaceous of Oklahoma. Introductory note.

- Jour Geol, xviii, 93

Williston, S. W.—Continued 1910 D

Dissorophus Cope.

Jour Geol., XVIII, 526-536, pls 1-III

Abstracts in Neues Jahrb Min Geol Pal, 1911, II, Ref., 135-137, Geol Centralbl., xv, 651, Rev crit Paléozool., xv, 131; Jahressber Anat Entwickl (N F), XVIII, pt 3, 207, Sci Progress, v, 688, fig

1910 E

A mounted skeleton of *Platecarpus*.

Jour Geol., XVIII, 537-541, 1 fig

Abstracts in Neues Jahrb Min Geol Pal, 1911 I, Ref., 327, Geol Centralbl. xv, 607, Rev crit Paléozool., xv, 149

1910 F

New Permian reptiles: Rhachitomous vertebræ.

Jour Geol., XVIII, 585-600, 1 plate 3 text-figs.

Abstracts in Neues Jahrb Min Geol Pal 1911 II Ref. 130-131 Rev crit Paléozool., xv, 149 Sci Progress, v, 687 Jahressber Anat Entwickl (N F) XVIII, pt 3, 207

1910 G

The birthplace of man.

Pop Sci Month., LXXVII, 594-597

1911 A

Restoration of *Seymouria baylorensis* Broili, an American cotylosaur.

Jour Geol. XIX, 232-237, 1 text-fig

Abstracts in Neues Jahrb Min. Geol Pal, 1911 II, Ref., 135, Geol Centralbl., XVIII, 523

Review in Rev crit Paléozool., XVI, 7

1911 B

American Permian vertebrates.

Univ Chicago Press, 8vo., 1-145, p's 1-XXXIII, text-figs 1-32

Abstracts in Geol Centralbl. XVII, 706, Sci Progress, VI, 577, Geol Mag (5), IX, 520.

Reviews in Science (N S.), XXXVI, 216, Rev crit Paléozool. XVI, 151-156, Nature, XC, 215

1911 C

Permian reptiles.

Science (N S.), XXXIII, 631-632

For brief notice see Neues Jahrb. Min Geol Pal, 1911 II, Ref., 135

1911 D

A new family of reptiles from the Permian of New Mexico.

Amer Jour. Sci (4), XXXI, 378-393, figs 1-7

Abstracts in Neues Jahrb Min Geol Pal, 1911, II, Ref., 133-134, Geol Centralbl., XVII, 430, Sci Progress, VI, 576

Review in Rev crit Paléozool., XVI, 8.

Williston, S. W.—Continued 1911 E

The wing-finger of pterodactyls, with restoration of *Nyctosaurus*.

Jour. Geol., XIX, 696-705, 4 text-figs

Abstract in Neues Jahrb Min Geol Pal, 1912, II, Ref., 148, Geol Centralbl., XVII, 705

Review in Rev crit Paléozool., XVI, 236

1911 F

Review of F. von Huene on *Erythrosuchus* (Huene, F., 1911 D).

Jour Geol., XIX, 661-664

1912 A

Restoration of *Limnoscelus*, a cotylosaur reptile from New Mexico.

Amer. Jour Sci (4), XXXIV, 457-468, figs 1-32

Abstracts in Neues Jahrb Min. Geol Pal., 1913, I, Ref., 521; Geol Centralbl., XIX, 444, Sci Progress, VIII, 17, Rev crit Paléozool., XVII, 76

1912 B

Primitive reptiles.

Jour Morphol., XXIII, 637-663, 1 fig

Abstracts in Neues Jahrb Min Geol. Pal., 1913, I Ref., 518-520, Sci. Progress, VIII, 17

1912 C

The Permo-Carboniferous of northern New Mexico.

Jour Geol., XX, 1-12, 2 text-figs

1912 D

A review of G. B. Eaton's "Osteology of *Pteranodon*."

Jour Geol., XX, 288

1912 E

Symposium on ten years progress in vertebrate paleontology. Evolutionary evidences.

Bull. Geol Soc Amer., XXXIII, 257-262

For the other articles of this symposium see the 1912 papers of Matthew, Gadley, Peterson Gregory True Case Holland, Lull Hay Merriam Dean, Eastman, Osborn, and Sinclair

1912 F

Review of Karl A. von Zittel's "Grundzüge der Paläontologie"; edition of 1911.

Jour Geol., XX, 91-93

1913 A

An ancestral lizard from the Permian of Texas.

Science (N S.), XXXVIII, 825-826.

Williston, S. W.—Continued 1913 B

The primitive structure of the mandible in amphibians and reptiles.

Jour. Geol., **xxi**, 625-627, fig. 1

Brief abstracts in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 164; Geol. Zentralbl., **xxi**, 38.

1913 C

The skulls of *Aræoscelus* and *Casea*, Permian reptiles.

Jour. Geol., **xxi**, 743-747, figs 1, 2

Abstract in Geol. Zentralbl., **xxi**, 265.

1913 D

Ostodolepis brevispinatus, a new reptile from the Permian of Texas.

Jour. Geol., **xxi**, 363-366, 2 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1914, I, Ref., 150; Geol. Zentralbl., **xx**, 704

1913 E

"The skeleton of *Ornithodesmus latidens*." By R. W. Hooley.

Jour. Geol., **xxi**, 754-756

A review of the paper, Hooley, R. W. 1913 A.

1914 A

Water reptiles of the past and present.

Univ. Chicago Press, vii+1-251 pages, 131 figs.

Reviewed in Science (n.s.), **xli**, 391-392, Nature, London, **xcv**, 3; Neues Jahrb. Min. Geol. Pal., 1915, II, Ref., 281-282, Sci. Progress, **ix**, 715; Ann. Mag. Nat. Hist. (8), **xviii**, 502; Jour. Geol., **xxxiii**, 1915, 94. Abstract in Geol. Mag. (6), II, 37-38.

1914 B

Brouliellus, a new genus of amphibians from the Permian of Texas.

Jour. Geol., **xxii**, 49-56, 3 figs

Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., pp. 474-475; Geol. Zentralbl., **xxi**, 622.

1914 C

Restorations of some American Permian carboniferous amphibians and reptiles.

Jour. Geol., **xxii**, 57-70, 11 figs

Abstract in Neues Jahrb. Min. Geol. Pal., 1914, II, Ref., 475.

1914 D

The osteology of some American Permian vertebrates. I.

Jour. Geol., **xxii**, 364-419, 19 text-figs.

See also Contrib. Walker Mus., I, 107-162, 19 figs. Reviewed in Neues Jahrb. Min. Geol. Pal., 1916, I, 269-272.

Williston, S. W.—Continued 1914 E

American Permian carboniferous reptiles and amphibians.

C. R. Congr. internat. Zool., Monaco, 1913, 120-121.

1915 A

New genera of Permian reptiles.

Amer. Jour. Sci. (4), **xxxix**, 575-579, 2 figs

Reviewed in Neues Jahrb. Min. Geol. Pal., 1916, I, 272-273

Abstract in Geol. Zentralbl., **xxv**, 467.

1915 B

Trimerorhachis, a Permian temnospondyl amphibian.

Jour. Geol., **xxiii**, 246-255, 6 figs.

Reviewed in Neues Jahrb. Min. Geol. Pal., 1915, II, Ref., 288-289.

1915 C

A new genus and species of American Theromorpha, *Mycterosaurus longiceps*.

Jour. Geol., **xxiii**, 554-559, 4 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1916, I, 273-274.

1915 D

The first discovery of dinosaurs.

Amer. Mus. Nat. Hist. Handbook series No. 5, New York, 124-131, fig. 44.

1916 A

The osteology of some American Permian vertebrates. II.

Contrib. Walker Mus., I, 165-192, text-figs. 20-37.

Abstract in Neues Jahrb. Min. Geol. Pal., 1918, Ref., 221-223.

1916 B

Synopsis of the American Permian carboniferous Tetrapoda.

Contrib. Walker Mus., I, 193-236, text-figs. 38-84

Abstracts in Nature, **xcviii**, 356; Neues Jahrb. Min. Geol. Pal., 1918, Ref., 217-220.

1916 C

The skeleton of *Trimerorhachis*.

Jour. Geol., **xxiv**, 291-297, 3 text-figs.

Abstract in Neues Jahrb. Min. Geol. Pal., 1918, Ref., 220

1916 D

Origin of the sternum in the reptiles and mammals (Abstract).

Bull. Geol. Soc. Amer., **xxvii**, 152.

1917 A

Labidosaurus Cope, a Lower Permian cotylosaur reptile from Texas.

Jour. Geol., **xxv**, 309-321, 9 figs. Reprinted in Contrib. Walker Mus., II, 45-47, 1917.

- Williston, S. W.**—Continued 1917 B
Sphenacodon Marsh, a Permian carboniferous theromorph reptile from New Mexico.
 Proc. Nat. Acad. Sci., II, 650-654, 1 fig.
- 1917 C
 The phylogeny and classification of reptiles.
 Jour. Geol., XXV, 411-421, 5 figs. Reprinted in Contrib Walker Mus., II, 61-71, figs 1-5, 1917
 Abstract in Geol Mag (6), v, 374-375
- 1917 D
 Comments on nomenclature of skull elements of Permian Tetrapoda.
 Bull Geol Soc Amer., XXVIII, 985-986.
- 1918 A
 The evolution of vertebræ.
 Contrib Walker Mus., II, 75-85, 6 text-figs
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- 1918 B
 The osteology of some American Permian vertebrates. III.
 Contrib Walker Mus., II 87-112, pls II, IV, text-figs 7-19
- 1925 A
 The osteology of the reptiles. Part I: The skeleton of reptiles.
 Pages 1-201 figs 1-159
 Arranged and edited by William King Gregory 8vo., I-XII+1-300 pages 191 figs
- 1925 B
 The osteology of reptiles. Part II: The classification and range of reptiles. Pages 205-300, figs. 160-191.
 Reviews in Amer Naturalist, LX 96-98.
 Jour Geol., XXXIV, 92, Geol Mag LXIII, 227, Amer Jour Sci (5), XI 96; Nature, CXXVII, 509
- , and E. C. Case 1892 A
 Kansas mosasaurs.
 Kansas Univ Quart., I 15-32 pls II-VI.
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- 1912 A
 The Permo-Carboniferous of northern New Mexico.
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 Description of the vertebrate-bearing beds of north-central New Mexico.
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- 1913 B
 Description of a nearly complete skeleton of *Ophiacodon* Marsh.
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- 1913 C
 A description of *Scoliomus puercentis*, new genus and species.
 Publ. Carnegie Instn Wash., No 181, 60, fig. 37
- 1913 D
 A description of *Edaphosaurus* Cope.
 Publ. Carnegie Instn Wash., No 181, 71-81, figs 46-51.
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 New plesiosaurian genus from the Niobrara Cretaceous of Nebraska (Abstract).
 Bull Geol. Soc Amer., XXIV 120-121.
- 1917 A
Ogmodirus martini, a new plesiosaur from the Cretaceous of Kansas.
 Kan Univ Sci Bull., X 61-73 pls. I-V, 3 text-figs
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 See also Case and Williston.
- Wills, Leonard J.** 1916 A
 The structure of the lower jaw of Triassic labyrinthodonts.
 Proc. Birmingham. Nat. Hist. Soc., XIV, 5-20, p's II, III, 11 text-figs.
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- Wilser, J. L.** 1923 A
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 Abstracts in Neues Jahrb. Min. Geol. Pal., 1925, I, pt 3, 383. Rev. crit. Paléozoöl., XXVIII, 102.

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- 1910 A
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- 1910 B
Ichthyosaurier aus der Trias Spitzbergens.
Bull. Geol. Instn. Upsala, x, 124-148, pls v-x, 6 text-figs.
Abstracts in Neues Jahrb. Min. Geol. Pal., 1911, i, Ref., 317-318; Sci. Progress, vi, 574
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- 1912 A
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- 1916 A
Notes on the marine Triassic reptile fauna of Spitzbergens.
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- 1916 B
Neue Stegocephalenfunde aus dem Posidonomyaschiefer Spitzbergens.
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- 1916 C
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- 1916 D
How the mammal came into existence.
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- 1917 A
Über die Stegocephalen *Tertrema* und *Longorhynchus*.
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The bibliography presents 14 titles
Abstract in Neues Jahrb. Min. Geol. Pal., 1918, Ref., 221.
- 1918 A
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- 1918 B
Über Gehirn und Sinnesorgane bei *Tremataspis*.
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- 1923 A
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- 1888 A
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- 1888 B
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Some geological features near Muscatine.

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Read May 24, 1878. Mentions finding of almost entire remains of *Rangifer caribou* in the loess at Muscatine.

1890 A

Some additional observations on the loess in and about Muscatine.

Proc. Iowa Acad. Sci., 1887 (1889), 45.

Witter, F. M.—Continued 1892 A

Notice of arrow points from the loess in the city of Muscatine.

Proc. Iowa Acad. Sci., 1890-91, 66-68

Mentions finding of remains of two American reindeer and the antlers of some species of deer in loess; also tooth of elephant.

1892 B

Arrow points from the loess at Muscatine, Iowa.

Amer. Geologist, IX, 276-277

Wood, Horace Elmer 1923 A

The problem of the *Uintatherium* molars.

Bull. Amer. Mus. Nat. Hist., XLVIII, 599-604, 4 figs

Abstract in Geol. Zentralbl., XXX, 440

1924 A

The position of the "sparassodonts": with notes on the relationships and history of the Marsupialia.

Bull. Amer. Nat. Hist., LI, 77-101, 2 tab'es, 57 figs.

The bibliography contains 21 titles.

1926 A

Some early Tertiary rhinoceroses and hyracodonts.

Bull. Geol. Soc. Amer., XXXVII, 238-239 (Abstract)

1927 A

Hoplophonus mentalis, and cusp homologies in cats.

Jour. Mamm., VIII, 296-302

The bibliography presents 28 titles.

1927 B

Some early Tertiary rhinoceroses and hyracodonts.

Bull. Amer. Pal., XIII (No. 50), 3-89, pls. 1-vii, 8 tables.

The bibliography presents 74 titles.

Wood, Norman A. 1914 A

Two undescribed specimens of *Castoroides ohioensis* Foster from Michigan.

Science (N.S.), XXXIX, 759

Woodhull, A. A. 1872 B

Discovery of the tusk of an elephant in Colorado.

Amer. Jour. Sci. (3), III, 373-374.

See Berthoud, E. L., 1872 A.

Wood-Jones, F. 1920 A

Discussion on the zoological position and affinities of *Tarsius*.

Proc. Zool. Soc. Lond., 1919 (1920), 491-494.

- Woodruff, Elmer Grant** 1906 A
The geology of Cass County, Nebraska.
Neb. Geol. Surv., II, 169-292, pls. i-xx, 33 text-figs.
A list of the remains of sharks is presented and figures of most of them.
- Woodward, A. Smith** 1887 B
Abstract in Geol. Mag (3), IV, 90.
- 1888 I
Abstract and list in Geol. Mag. (3), V, 139-142.
- 1888 K
Note on the early Mesozoic ganoid *Belonorhynchus*, and on the supposed Liassic genus *Amblyurus*.
Ann. Mag. Nat. Hist. (6), I, 354-356.
- 1888 L
On some remains of *Squatina cranei* sp. nov., and the mandible of *Belonostomus cinctus* from the Chalk of Sussex.
Quart. Jour. Geol. Soc., XLIV, 144-148, pl. VII.
- 1888 M
On two new lepidotid ganoids from the early Mesozoic deposits of Orange Free State, South Africa.
Quart. Jour. Geol. Soc., XLIV, 136-143, 270, pl. VI.
- 1888 N
Dr. Georg Baur on fossil Chelonia.
Geol. Mag. (3), V, 373.
- 1888 O
Remarks on a note by G. Baur on the pleurodiran chelonians.
Ann. Mag. Nat. Hist. (6), II, 352-354.
- 1889 I
Notes on the teeth of sharks and skates from the English Eocene formations.
Proc. Geol. Assoc. XVI, 1-14, pl. 1, 2 text-figs.
- 1889 J
On the so-called Cretaceous lizard, *Rhaphiosaurus*.
Ann. Mag. Nat. Hist. (6), IV, 350-351.
In the bibliography 9 titles are cited.
- 1889 K
On the occurrence of the Devonian ganoid *Onychodus* in Spitzbergen.
Ann. Mag. Nat. Hist. (6), IV, 407.
- Woodward, A. Smith—Cont'd** 1890 E
Review of J. S. Newberry's "Triassic fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley." Newberry, J. S., 1888 A.
Nature, XLII, 366-367.
- 1890 F
Review of J. S. Newberry's "The palæozoic fishes of North America." Newberry, J. S., 1889 A.
Nature, XLIII, 146-147.
- 1890 G
The fossil sturgeon of the Whitby Lias.
Naturalist, 1890, 101-107, 8 figs.
- 1890 H
On two groups of teeth of the Cretaceous selachian fish *Ptychodus*.
Rep. Yorksh Philos Soc., 1889 (1890), 38-41, pl. 1.
- 1891 A
Review in Geol. Mag (3), VIII, 123-129.
- 1891 E
The hybodont and cestracion sharks of the Cretaceous period.
Proc. Yorksh Geol. Polyt. Soc. (n.s.), XII, 62-68, pls. 1, II.
- 1891 F
The Devonian fish-fauna of Spitzbergen.
Ann. Mag. Nat. Hist. (6), VIII, 1-15, pls. I-III.
- 1891 G
Pholidophorus germanicus: An addition to the fish fauna of the Upper Lias of Whitby.
Geol. Mag. (3), VIII, 545-546.
- 1892 H
Doubly armoured herrings.
Ann. Mag. Nat. Hist. (6), X, 412-413.
- 1892 I
Description of the Cretaceous saw-fish *Sclerorhynchus atavus*.
Geol. Mag. (3), IX, 429-534, 1 fig.
- 1893 F
Some Cretaceous fishes.
Ann. Mag. Nat. Hist. (3), X, 433-436, 487-493, plates XVI, XVII.

- Woodward, A. Smith—Cont'd 1894 C**
 On some fish-remains of the genera *Portheus* and *Cladocyclus* from the Rolling Downs formation (Lower Cretaceous) of Queensland.
 Ann. Mag. Nat. Hist. (6), xiv, 444-447.
 Abstract in Neues Jahrb. Min. Geol. Pal., 1898, II, Ref., 329.
- **1895 F**
 On the development of the teeth in certain Insectivora (Abstract).
 Rep. Brit. Assoc. Adv. Sci., LXV, Ipswich, 1895, 736.
- **1895 G**
 A synopsis of the remains of ganoid fishes from the Cambridge Greensand.
 Geol. Mag. (4), II, 207-214, pl. VIII, 4 text-figs.
- **1896 D**
 On the quadrate bone of a gigantic pterodactyl discovered in the Cretaceous of Bahia, Brazil.
 Ann. Mag. Nat. Hist. (6), XVII, 255-257.
- **1896 E**
 Note on the affinities of the English Wealden fish-fauna.
 Geol. Mag. (4), III, 69-71.
- **1897 B**
 The ostracoderms of Professor Cope.
 Nat. Sci., XI, 144
- **1897 C**
 Edward Drinker Cope.
 Nat. Sci., X, 377-381, with portrait.
- **1897 D**
 On a new specimen of stegocephalan, *Ceraterpeton galvani* Huxley, from the Coal measures of Castlecomer, Kilkenny, Ireland.
 Geol. Mag. (4), IV, 293-298, pl. XII. Abstract in Neues Jahrb. Min. Geol. Pal., 1898, II, Ref., 333
- **1897 E**
 On a new specimen of the Mesozoic ganoid fish *Pholidophorus* from the Oxford Clay of Weymouth.
 Proc. Dorset Nat. Hist. Antiquar. Field Club, XVIII, 150-152, with plate.
- **1898 B**
 Reviewed in Sci. Progress, VII, App., XLIV; Geol. Mag. (4), V, 367-373.
- **1898 C**
 The antiquity of the deep-sea fish-fauna.
 Nat. Sci., XII, 257-260, pl. X
 Abstract in Rev. crit. Paléozoöl., IV, 111-112.
- Woodward, A. Smith—Cont'd 1898 D**
 The history of the Mammalia in Europe and North America.
 Nat. Sci., XII, 328-336.
- **1898 E**
 The imperfection of the geological record.
 Nat. Sci., XIII, 327-332.
- **1898 F**
 Preliminary note on a new specimen of *Squatina* from the lithographic stone of Nusplingen, Württemberg.
 Geol. Mag. (4), V, 289-291, pl. X, 1 text-fig.
- **1898 G**
 Note on a Devonian celacanth fish.
 Geol. Mag. (4), V, 529-531, 1 fig.
- **1898 H**
 Notes on some type specimens of Cretaceous fishes from Mount Lebanon, in the Edinburgh Museum of Science.
 Ann. Mag. Nat. Hist. (7), II, 405-414.
- **1899 C**
 On the Cretaceous fish *Plethodus*.
 Ann. Mag. Nat. Hist. (7), III, 353-361, pls. XIII, XIV
- **1899 D**
 The supposed existing ground-sloth of Patagonia.
 Nat. Sci., XV, 351-354.
- **1899 E**
 Note on *Scapanorhynchus*, a Cretaceous shark apparently surviving in Japanese seas.
 Ann. Mag. Nat. Hist. (7), III, 487-489.
 Abstract in Rev. crit. Paléozoöl., IV, 115
- **1899 F**
 A supposed existing ground-sloth in Patagonia.
 Geol. Mag. (4), VI, 226-228.
- **1900 B**
 Abstract in Geol. Centralbl., I, 603.
- **1900 E**
 Report upon fish remains.
 Summ. Rep. Geol. Surv. Canada for 1899, 203-204.
- **1900 F**
 Helicoprion—spine or tooth?
 Geol. Mag. (4), VII, 33-36.
- **1900 G**
 On some remains of *Grypotherium* (*Neomyiodon*) *listai* and associated mammals from a cavern near Consuelo Cave, Last Hope Inlet, Patagonia.
 Proc. Zool. Soc. Lond., 1900, 64-79, pls. v-ix

Woodward, A. Smith—Cont'd 1900 H

Notes on some upper Devonian fish-remains discovered by Prof. A. G. Nathorst in East Greenland.

Bihang svenska Vet. Akad. Handl., xxvi, Afd. iv, No. 10, 1-10, 1 pl.

Abstracts in Geol. Centralbl., x, 729; Rev. crit. Paléozool., ix, 189.

1901 A

Catalogue of the fossil fishes in the British Museum. Part IV: Containing the actinopterygian Teleostomi of the suborders Isospondyli (in part), Ostariophysi, Apodes, Percesoces, Hemibranchii, Acanthopterygii, and Anacanthini.

8vo., i-xxxviii+1-636 pages, pls. 1-xix, 22 text-figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1905, ii, Ref., 134-136; Geol. Centralbl., ii, 667-669

Review in Rev. crit. Paléozool., vi, 59-65, Geol. Mag. (4), ix, 133-138.

1901 B

On some extinct reptiles from Patagonia, of the genera *Miolania*, *Dinilystia*, and *Gonyodectes*.

Proc. Zool. Soc. Lond., 1901, 169-184, pls xv-xx.

1901 C

Notes on fossil fishes found in the Knuydart formation, Nova Scotia.

Bull. Geol. Soc. Amer., xii, 311-312.

1902 A

Description and comparison of the specimen [of *Grypotherium*].

Pritchard's "Through the heart of Patagonia," pp. 305-330; with 2 figures.

Describes and figures the skin of a mylodont found in cave in Patagonia

1902 B

On two skulls of the ornithosaurian *Rhamphorhynchus*.

Ann. Mag. Nat. Hist. (7), ix, 1-5, pl. 1

1902 C

On an amioid fish (*Megalurus mawsoni* sp. n.) from the Cretaceous of Bahia, Brazil.

Ann. Mag. Nat. Hist. (7), ix, 87-89, pl. ii.

1902 D

Report on fish remains.

Rep. Geol. Surv. Canada, 1899, xii, 203.

Woodward, A. Smith—Cont'd 1902 E

Note sur l'*Helicoprion* et les "édés-tides."

Bull. Soc. belge Géol. (2), xiii, Proc. verb., 230-234, fig. 4.

Followed by discussion by Van de Wiele, Kemna, Dubois, and Simoens.

1903 A

The new mammoth at St. Petersburg.

Nature, lxxviii, 297-298, 2 text-figs.

1903 B

The mammoth.

Geol. Mag. (4), x, 361-363.

A review of three papers on the mammoth found on the Beresowka River in Siberia.

1903 C

On the Carboniferous ichthyodorous *Listracanthus*.

Geol. Mag. (4), x, 486-488, 9 text-figs.

1904 A

On the jaws of *Ptychodus* from the Chalk.

Quart. Jour. Geol. Soc., lx, 133-136, pl. xv, 1 text-fig.

Abstracts in Geol. Centralbl., v, 484; Rev. crit. Paléozool., viii, 159.

1904 B

On the jaws of *Ptychodus* from the Chalk.

Geol. Mag. (5), i, 139-140

Abstract of Woodward, A. S., 1904 A.

1904 C

Some recent discoveries concerning the teeth of extinct animals.

Trans. Odont. Soc. G. Brit. (n.s.), xxxvi, 185-198, 6 text-figs.

1904 D

On two new labyrinthodont skulls of the genera *Capitosaurus* and *Aphaneramma*.

Proc. Zool. Soc. Lond., ii, 170-176, pls xi, xii, text figs.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1907, i, Ref., 150; Jahresber. Anat. Entwickl. (N.F.), x, Abth. 3, 162

1905 A

On parts of the skeleton of *Cetiosaurus leedsi*, a sauropodous dinosaur from the Oxford Clay of Peterborough.

Proc. Zool. Soc. Lond., 1905, i, 232-243, text-figs. 39-49.

Abstracts in Neues Jahrb. Min. Geol. Pal., 1910, i, Ref., 462; Rev. crit. Paléozool., xi, 12

1906 A

The relations of palaeontology to biology.

Ann. Mag. Nat. Hist. (7), xviii, 312-318

Abstract in Rev. crit. Paléozool., xi, 95-97.

- Woodward, A. Smith—Cont'd 1906 B**
On two specimens of *Ichthyosaurus* showing contained embryos.
Geol. Mag. (5), III, 443-444, pl. xxiv.
Abstracts in Rev. crit. Paléozool., XI, 76;
Geol. Centralbl., IX, 137; Sci. Progress, I, 459.
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- 1906 C**
The study of fossil fishes.
Proc. Geol. Assoc., XIX, 266-282, figs. 1-15.
Abstracts in Nature, LXXIV, 597-599, figs 1-3, Geol. Centralbl., VIII, 751-752; Rev. crit Paléozool., XI, 77-82.
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- 1906 D**
On a Carboniferous fish fauna from the Mansfield District, Victoria.
Mem Nat. Mus. Melbourne, No. 1, 1-32, pls 1-xi, 3 text-figs.
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- 1907 A**
Notes on some Upper Cretaceous fish-remains from the provinces of Sergipe and Pernambuco, Brazil.
Geol. Mag. (5), IV, 193-197, pl. vii
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- 1907 B**
On a new dinosaurian reptile (*Scleromochlus taylori* gen. et sp. nov.) from the Trias of Lossiemouth, Elgin.
Quart Jour. Geol. Soc., LXIII, 140-144, pl. ix, 1 text-fig
Abstract in Sci. Progress, II, 515.
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- 1907 C**
On *Rhynchosaurus articeps* (Owen).
Rep Brit. Assoc. Adv. Sci., 1903 (1904), York meet., 293-298, pls 1, II, 1 fig.
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- 1908 A**
On some fossil fishes discovered by Prof. Ennes de Souza in the Cretaceous formation at Ilhéos (State of Bahia), Brazil.
Quart. Jour. Geol. Soc., LXIV, 358-362, pls xlii, xliii.
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- 1909 A**
The British Association for the Advancement of Science. Address of the President to the Geological Section.
Science (n.s.), XXX, 321-331.
See also Rep. Brit. Assoc. Adv. Sci., 1909 (1910), LXXIX, 467-471.
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- 1910 A**
On a skull of *Megalosaurus* from the Great Oolite of Minchinhampton (Gloucestershire).
Quart. Jour. Geol. Soc., LXVI, 111-115, pl. xiii.
Abstract in Geol. Centralbl., XV, 413.
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- Woodward, A. Smith—Cont'd 1910 B**
Presidential address at meeting of British Association for Advancement of Science, at Winnipeg, Canada.
Rep. Brit. Assoc. Adv. Sci., LXXIX, Winnipeg 1909, 462-471.
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- 1910 C**
Some extinct vertebrate animals from North America.
Nature, LXXXIV, 12-13, 2 figs.
A review of collected papers from the Bull. Amer. Nat. Hist. from 1904-1908 (vol. III).
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- 1910 D**
Origin of vertebrates.
Proc. Linn. Soc. Lond., CXXII, 31.
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- 1911 A**
On some mammalian teeth from the Wealden of Hastings.
Quart. Jour. Geol. Soc., LXVII, 278-281, 1 text-fig
Abstract in Nature, LXXXVI, 233.
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- 1911 B**
On the upper Devonian ostracoderm *Psammosteus taylori*.
Ann. Mag. Nat. Hist. (8), VIII, 649-652, pl. ix.
Abstracts in Geol. Centralbl., XVIII, 474; Neues Jahrb. Min. Geol. Pal., 1913, I, 164
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- 1911 C**
Fauna of the Carboniferous period.
Proc. Linn. Soc. Lond., sess., CXXIII, 45-46.
Also in Nature, LXXXVI, 541.
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- 1912 A**
The fishes of the English chalk.
Palaeontogr. Soc. London, vols for years 1902, 1903, 1907, 1908, 1909, 1910, 1911.
The parts were issued as follows: Pt. I, 1-56, pls. 1-xiii, text-figs. 1-12, in 1902. Pt. II, 57-96, pls. xiv-xx, text-figs. 13-23, in 1903. Pt. III, 97-128, pls. xxi-xxvi, text-figs. 24-38, in 1907. Pt. IV, 129-152, pls. xxvii-xxxii, text-figs. 39-45, in 1908. Pt. V, 153-184, pls. xxxiii-xxxviii, text-figs. 46-55, in 1909. Pt. VI, 185-224, pls. xxxix-xlvi, text-figs. 56-68, in 1911. Pt. VII, 225-264, pls. xlvii-liv, text-figs. 69-79, in 1912.
Abstracts in Jahresber. Anat. Entwickl. (N.F.), VIII, pt. 3, 90; Neues Jahrb. Min. Geol. Pal., 1912, II, Ref., 448-452; XVIII, 140-141; Sci. Progress, III, 22
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- 1912 B**
Note on a maxilla of *Triconodon* from the Middle Purbeck beds of Swanage.
Proc. Geol. Assoc., XXXIII, 100-101, pl. xv.

- Woodward, A. Smith—Cont'd 1912 C**
 On the snout of a pachycormid fish (*Protosphyraena stebbingi*) from the Lower Chalk of Ferriby, Lincolnshire. *Naturalist*, 1912, 329-330, pl. xix.
 Abstract in *Geol. Zentralbl.*, xix, 44.
- 1913 A
 On a new specimen of the Cretaceous fish *Portheus molossus* Cope. *Geol. Mag.* (5), x, 529-531, pl. xviii.
 Abstract in *Geol. Zentralbl.*, xxi, 267.
- 1913 B
 Note on fish remains from the Upper Devonian. *Quart. Jour. Geol. Soc.*, lxxix, 81-83, pl. x.
 Abstract in *Neues Jahrb. Min. Geol. Pal.*, 1923, i, 455.
- 1915 A
 On the skull of an extinct mammal related to *Eluopus* from a cave in the ruby mines at Mogok, Burma. *Proc. Zool. Soc. Lond.*, 1915, 425-428, pl. i, 1 text-fig.
- 1915 B
 The use of fishes in stratigraphical geology. *Quart. Jour. Geol. Soc.*, lxxxi, lxxi-lxxv.
 Abstract in *Geol. Zentralbl.*, xxvi, 253.
- 1916 A
 On a mandibular ramus from an Upper Cretaceous formation in Alberta, Canada. *Proc. Zool. Soc. Lond.*, 1916, abstract 158, 30.
 Describes *Cimolestes cutleri* n. sp.
- 1916 B
 On a mammalian mandible (*Cimolestes cutleri*) from an Upper Cretaceous formation in Alberta, Canada. *Proc. Zool. Soc. Lond.*, 1916, 525-528.
- 1917 A
 Note on *Plectrodus*, the jaw of an Upper Silurian fish. *Geol. Mag.* (6), iv, 74-75.
 Abstract in *Geol. Zentralbl.*, xxvi, 381.
- 1917 B
 Notes on the pycnodont fishes. *Geol. Mag.* (6), iv, 385-389, pl. xxiv, 1 text-fig.
 Abstracts in *Geol. Zentralbl.*, xxvi, 381; *Sci. Progress*, xii, 421.
- 1917 C
 The so-called coprolites of ichthyosaurs and labyrinthodonts. *Geol. Mag.* (6), iv, 540-542, pl. xxxiv, 1 text-fig.
 Abstract in *Geol. Zentralbl.*, xxvi, 379.
- Woodward, A. Smith—Cont'd 1917 D**
 The use of the higher vertebrates in stratigraphical geology. *Quart. Jour. Geol. Soc.*, lxxii, Proc., lxxv-lxxvi.
 Abstract in *Nature*, xcvi, 93.
- 1917 E
 Exhibition of specimen of *Caelorhynchus* from Nigeria. *Quart. Jour. Geol. Soc.*, lxxii, Proc., lxxviii.
- 1917 F
 On a new species of *Edestus* from the Upper Carboniferous of Yorkshire. *Quart. Jour. Geol. Soc.*, lxxii, 1-5, 6, pl. i, 4 text-figs.
 Description of *Edestus newtoni*.
 For preliminary description see *Nature*, xcvi, 162; *Geol. Mag. Lond.* (6), iii, 381.
 Abstracts in *Neues Jahrb. Min. Geol. Pal.*, 1921, i, Ref., 351; *Geol. Zentralbl.*, xxvi, 123; *Sci. Progress*, xii, 420.
- 1917 G
 Devonian fish-remains from Australia and the Antarctic regions. *Quart. Jour. Geol. Soc.*, lxxii, lxxix-lxxx.
- 1918 A
 Rostral teeth of *Eopristis* and *Pristis*. *Proc. Zool. Soc. Lond.*, 1918, 194-195.
- 1919 A
 The fossil fishes of the English Wealden and Purbeck formations. *Palaeontogr. Soc. London*, vol. for 1917, 1-148, pls. i-xxvi and 41 text-figs.
 The parts were issued as follows: Pt. I, 1-48, pls. i-x, Oct., 1916. Pt. II, 49-104, pls. xi-xx, Feb., 1918. Pt. III, 1-viii, 105-148, pls. xxi-xxvi, Apr. 1919.
 Abstract of Pt. II in *Geol. Mag.* (6), v, 417.
- 1919 B
 On the dentition of the petalodont shark *Chimaerodus*. *Geol. Mag.* (6), vi, 379-380.
- 1920 A
 American fossil vertebrate animals. *Nature*, cv, 117-118, 1 fig.
- 1920 B
 On the dentition of the petalodont shark *Chimaerodus*. *Quart. Jour. Geol. Soc.*, lxxv, 1-5, pl. i.
 Abstract in *Neues Jahrb. Min. Geol. Pal.*, 1921, i, Ref., 352.
- 1920 C
 Discussion on the zoological position and affinities of *Tarsius*. *Proc. Zool. Soc. Lond.*, 1919 (1920), 465.

Woodward, A. Smith—Cont'd 1920 D

On certain groups of fossil fishes.

Proc. Linn. Soc. Lond., sess. cxxxii, 25-34, 4 figs.

Bibliography in footnotes.

Abstract in Neues Jahrb. Min. Geol. Pal., 1923, i, 454

1921 A

Recent progress in the study of fossil fishes.

Proc. Geol. Assoc., xxxii, 179-181, figs. 20, 21

1921 B

Observations on some extinct elasmobranch fishes.

Proc. Linn. Soc. Lond., sess. cxxxiii, 29-39, 4 figs.

Abstracts in Geol. Zentralbl., xxvii, 363; Neues Jahrb. Min. Geol. Pal., 1923, i, 453

1921 C

Visit to the gallery of fossil fishes. British Museum (Natural History).

Proc. Geol. Assoc., xxxii, 179-181, 2 figs

1922 A

A supposed ancestral man in North America.

Nature, cix, 750

1922 B

Observations on crossopterygian and arthrodiran fishes.

Proc. Linn. Soc. Lond., sess. cxxxiv, 27-36, 5 figs.

The bibliography is in footnotes.

Abstract in Neues Jahrb. Min. Geol. Pal., 1923, i, 453.

1922 C

A guide to the fossil reptiles, amphibians, and fishes in the department of geology and palaeontology in the British Museum of Natural History.

London, 10th ed., i-xvi+1-112 pages, 8 pls., 117 text-figs

Abstract in Rev. crit. Paléozoool., xxvii, 219.

1923 A

Presidential address. Palaeontology and Evolution.

Proc. Linn. Soc. Lond., cxxxv, 27-34, 4 figs

1923 B

On a new fossil fish (*Anogmus ornatus* sp. nov.) from the Lower Chalk of South Ferriby, Lincolnshire.

Naturalist, Sept., 1923, 297-300, 1 fig.

Woodward, A. Smith—Cont'd 1923 C

A guide to the fossil mammals and birds in the department of geology and palaeontology in the British Museum (Natural History).

Pages 1-96, 6 pls., 86 text-figs

1924 A

The animals of the Carboniferous period, with special reference to the discoveries in Yorkshire.

Naturalist, 1924, 105-117, 8 figs.

1924 B

On a hybodont shark (*Trustychius*) from the Calciferous sandstone series of Eskdale (Dumfries-shire).

Quart. Jour. Geol. Soc., lxxxi, 338-342, 1 fig.

Abstracts in Geol. Zentralbl., xxx., 416; Neues Jahrb. Min. Geol. Pal., 1925, i, 283.

1925 A

The oldest fossil fishes.

Nature, cxv, 124-125, 3 figs.

, and B. Petronievics

See Petronievics and Woodward.

, and C. D. Sherborn

1891 A

A catalogue of British fossil Vertebrata. Supplement for 1890.

Geol. Mag. (3), viii, 25-34.

, and Errol Ivor White

1926 A

The fossil fishes of the Old Red sandstone of the Shetland Isles.

Trans. Roy. Soc. Edinb., liv, 567-572, pl. lv

The bibliography presents 17 titles.

Woodward, Henry**1878 A**

On some armoured fishes.

Pop. Sci. Review, xvii (n.s. ii), 1-23, pls. i, ii

1904 A

A retrospect of palaeontology in the last forty years.

Geol. Mag. (5), i, 1-6, 49-56, 97-106, 145-157

1904 B

The evolution of vertebrate animals in time.

Jour. Roy. Micr. Soc., 1904, 137-164.

1906 A

A large-headed dinosaur.

Nature, lxxiii, 228-229, 1 fig.

Abstract in Geol. Zentralbl., vii, 662.

1915 A

Eminent geologists. Arthur Smith Woodward.

Geol. Mag. (6), ii, 1-5, with portrait.

- Woodward, M. F.** 1894 B
On the succession and genesis of mammalian teeth.
Sci. Progress, I, 438-453.
The bibliography presents titles of 51 works.
- Woodworth, Jay Backus** 1905 A
Ancient water levels of the Champlain and Hudson valleys.
Bull. N. Y. State Mus., LXXXIV, 67-265, pls. 1-xxix, 24 text-figs.
- 1911 A
Report to Professor F. W. Putnam on the geology of vicinity of Trenton, 1899.
Peabody Mus. Amer. Archæol., v, 237-241
See **Shaler and Woodworth**.
- Woolman, Lewis** 1897 A
Fossil horse in Fish House Clay, *Equus complicatus* Leidy.
Rep. Geol. Surv. New Jersey for 1896, 208-210, pl. x.
- 1897 B
Vertebrate and invertebrate fossils and also plant remains at Fish House as noted by Prof. H. Carville Lewis.
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Unless otherwise indicated, the authors, as quoted, use for this class the name *Elasmobranchii*. Meckel, as cited, includes under *Plagiostomi* the genera *Raja*, *Squalus* and *Chimera*. His name therefore antedates *Elasmobranchii* of Bonaparte.

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Delsman, H. C. 1913 A, 659 ("selachier").

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- Deninger, K. 1914 A, 183-214 ("fische").
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- Dependorf, T. 1907 A, 546 ("fische").
- Derjugin K. 1910 B, 207 ("selachier").
- Diener, C. 1909 A, 32 ("fische").
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- Dohrn, A. 1884 A ("selachier").
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- Dollo, L. 1889 E 146 ("poissons").
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- Dugès, A. 1905 A, 107 ("poissons")
- Eastman, C. R. 1898 E, 177 ("fishes").
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- Eastman and Barbour 1902 A, 267 ("elasmobranchs").
- Ebner, V. 1896 A, 123 ("fische").
- Eichwald, E. 1832 A, 876 ("selachier").
- Eisler, P. 1895 A, 17 ("fische").
- Elliot, A. I. M. 1907 A, 648 ("selachians").
- Emery, C. 1895 A, 223 ("selaciens").
- Erdl, M. 1843 A ("fische").
- Fahrenheit, C. 1915 A, 389 ("selachier").
- Filatoff, D. 1907 A, 338.
- Fitzinger, L. J. 1873 A, 53.
- Forster, A. 1905 A, 89-138.
- Fowler, H. W. 1911 A, 22.
- Fraas, E. 1905 B, 354 ("fische").
- Froriep, A. 1902 A, 34 ("selachier").
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- Fuchs, H. 1907 C, 24 ("fische").
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- Fürbringer, K. 1903 A, 380 ("selachier").
- Fürbringer, M. 1902 A.
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- Gadow, H. 1910 A, 27 ("elasmobranchs")
- Garman, S. 1911 A, 81 (Chondropterygii).
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- Gaskell, W. H. 1905 A, 41 ("fishes").
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- Gaupp, E. 1897 A, 545 ("elasmobranchier").
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- Gegenbaur, C. 1867 A, 56 ("selachier").
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- Gill, T. 1873 E, 435 ("elasmobranchiates")
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 1905 A, 655 657.
 1909 A, 193 ("elasmobranchiates," Chondrophora)
- Goetsch W. 1920 A, 5, 518 ("plagiostomen," "selachier")
- Goette, A. 1901 A, 533 ("fische").
- Goodrich, E. S. 1904 A, 468, 492.
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- Gregory, W. K. 1907 D, 445
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- Haeckel, E. 1868 A 441 443 (Selachii)
 1873 A, 516, 585 (Selachii)
 1893 A, xvi ("selachier").
- Harrison, R. G. 1893 A, 248 ("selachier").
 1895 A, 566 ("selachier")
- Hase, A. 1907 A, 655 ("selachier").
 1913 A ("fische").
- Hasse, C. 1873 B, 629 ("plagiostomen").
 1892 B, 519 ("elasmobranchier").
 1893 B, 537 ("elasmobranchier").
- Hasse and Schwarck 1870 A, 47 ("plagiostomen").
- Hatschek, B. 1889 A, 82 ("fische")
 1889 B, 114 ("fische")
- Hawkes, O. A. M. 1905 A, 82 ("elasmobranchs").
- Hay, O. P. 1897 A, 131 ("sharks")
 1901 B, 63
 1917 H, 383 ("fishes")
- Heckel, J. 1851 A, 219 ("selachier").
- Heilprin, A. 1887 A, 299
- Henshaw, H. W. 1912 A, 318 ("fishes")
- Hertwig, O. 1892 A.
- Hoernes, R. 1886 A, 539 (Chondropterygii)
- Hoeven, J. 1822 A (Pisces, in part).
- Houssay, F. 1909 A, 617 ("poissons").
 1909 B, 943 ("poissons")
 1909 C, 1076 ("poissons")
- Howes, G. B. 1902 A, 525 ("elasmobranchs")
- Hubbs, C. L. 1926 A, 61 ("elasmobranchs").
- Huber, O. 1901 A, 592 ("selachier").
- Hubrecht, A. A. W. 1908 A, 152; 156 (Chondrophora).
- Huene, F. 1907 A, 151-152 ("fische")
 1910 F, 147-163 ("fische").
 1911 G, 146-151 ("fische").
 1926 A, 260.
- Hussakof, L. 1910 A, 925 ("selachians")
- Huxley, T. H. 1853 A, 150 ("skate").
 1859 D, 417.
 1859 H, 33.
 1861 D, 448

- Huxley, T. H. 1869 G, 452.
1876 E, 103.
1883 B, 571.
- Ihering, H. 1878 A, 72 ("fische").
- Imms, A. D. 1905 A, 41 ("elasmobranchs").
- Jacobshagen, E. 1923 A, 174 ("selachier").
- Jaekel O. 1902 E, 1115 ("plagiostomen").
1903 F, 28 (Pisces, in part); 36, 46 ("selachier").
1906 A, 8 ("selachier").
1906 C, 155 ("selachier").
1909 D, 701 ("fische").
1913 A, 77 ("fische").
1913 B, 194 ("selachier").
1927 A, 253 ("selachier").
- Jaquet, M. 1900 A, 60 ("selaciens").
- Johnson, A. 1883 A, 402 ("elasmobranchs").
- Jordan, D S 1898 A, 173 ("fishes").
1901 A ("fishes").
1902 A, 240 ("fishes")
1905 A, i, 506; ii, 568.
1907 B, 180, 758
1923 A, 90
- Jordan and Gilbert 1882 A, 12.
- Kellicott, W. E 1905 A, 137.
- Kerr, J G 1901 A 694 ("selachians").
1910 A, 203 ("elasmobranchs").
- Keyes, C A 1922 A, pl. iii
1924 A, 233 ("fishes")
- Kner, J 1924 A, 91, 100, 101, 111
- Kindred, J E 1919 A, 27 ("elasmobranchs").
- Kingsley, J S. 1885 A, 68.
1896 A, 147 ("elasmobranchs")
1900 A, 204 ("elasmobranchs").
1901 A, 197 ("sharks")
1912 B ("elasmobranchs").
1925 A, 10, 29, 81, 232 ("elasmobranchs").
- Klantsch, H 1893 B ("fische").
1893 C 143 ("fische")
- Kner, R 1860 B, 815 (Plagiostomi).
- Koken, E 1893 B, 640 ("fische").
- Kolmer, W. 1923 A, 529 ("selachier").
- Krivetski, A. 1917 A, 16 ("selaciens").
- Lavocat, A 1884 A, 1126 ("poissons").
1896 B, 194 ("poissons").
1897 A, 138 ("poissons")
- Le Damany P. 1902 A, 333 ("poissons").
- Leigh-Sharp W. H. 1926 A, 307 ("elasmobranchs")
- Lemus and Ludwig 1883 A, 779 (Chondropterygu).
- Locy, W A 1894 A, 171 ("elasmobranchs").
- Lonnberg, E 1901 A
1902 A
- Lubosch, W 1909 A, 1 ("selachier").
- Lutken, C 1868 C (Selachn).
1871 A, 296 ("chondrostéens desmobranches")
- Lydekker, R 1907 C, 464
- M'Donnell, R 1864 A, 161 ("fishes").
- Mantell, G A. 1844 A, 587, 612 ("sharks, rays").
- Meckel, J. F. 1825 A ("plagiostomen").
- Meek, A 1916 A, 34
- Menmur, W H. 1902 A, 273.
- Miall, L C 1872 A, 32.
- Mivart, St. G 1871 B, 378 ("elasmobranchs").
- Montgomery, T. H. 1901 A, 21733 ("fishes").
- Moodie, R. L 1915 I, 138 ("selachians").
- Mummery, J H 1917 A, 264 ("elasmobranch").
- Nauck, E. T. 1926 B, 29 ("chondropteryger").
- Ortmann, A. E. 1901 A, 694 ("fishes").
- Osborn, H. F. 1916 E, 601 ("sharks, rays")
1917 B, 168, 292.
- Osburn, R. C. 1907 B, 174 (Selachn).
- Oswald, F. 1911 A, 409 ("elasmobranchs")
- Owen, R. 1845 B, 23 ("plagiostomes").
- Paramore, R. H. 1910 A, 1393 ("fishes").
- Parker, W. K. 1888 C, 399 ("elasmobranchs").
- Parker and Haswell 1897 A, 134.
- Paterson, A. M. 1902 A, 777 ("elasmobranchs")
- Patten, W. 1912 A, 384.
- Philippi and Frech 1903 A, 10 ("selachier").
- Poche, F. 1911 A 49 ("selachier").
- Pompeck, J. F. 1913 A, 1120
1914 A, xcu ("fische")
- Priem, F. 1908 B ("elasmobranchs").
- Rabinerson, A. 1925 A, 434 ("knorpelfische")
- Rabl, C. 1901 A, 475 ("selachier")
- Radelhffe, L. 1916 A, 243 (Chondropterygia).
1917 A, 26 ("sharks")
- Rauther, M 1913 A, 1097
- Regan, C T 1904 A, 329 (Chondropterygu)
1906 A, 722 (Selachn).
1908 D, 347 ("selachians").
1909 B, 75 (Selachn).
1923 B, 459 ("selachians")
- Reis, O M 1894 A, 50 ("elasmobranchier")
1894 B, 87 ("fische")
- Reynolds, S. H. 1897 A, 62, 104, 117, 124, 127, 539
- Ridewood, W G. 1895 B ("elasmobranchs").
1896 A, 380 ("fishes")
1897 B, 499 ("elasmobranchs").
- Rohon, J. V. 1902 A, 25 ("selachier")
- Romer, A. S. 1928 A, 432 ("fish").
- Rosén, N. 1916 A, 7 ("selachier").
- Roth, W. 1911 A ("selachier")
- Ryder, J. 1885 E, 91 ("elasmobranchs")
1886 A, 71 ("elasmobranchs").
1887 A, 345
- Sabatier, A. 1903 B, 1216 ("chondroptérygiens")
1904 A, 251 ("chondroptérygiens").
- Salbey, R. 1868 A, 734 ("placorden").
- Schaumsland, H. 1906 A ("elasmobranchier").
- Schlosser, M. 1917 A, 132, 133, 137, 139 ("elasmobranchier")
- Schmalhausen, J. J. 1912 A 510, 550 ("selachier").
1913 C
1916 C, 211.
1923 A, 537 ("selachier")
- Schone, G. 1902 A, 1 ("selachier").
- Schuchert, C. 1915 A, 682
- Schuchert and Barrell 1914 A, 25 ("fishes")
- Sedgwick, A 1894 A, 43.
- Seeley, H G. 1872 B, 26 ("fish").
- Sewertsoff, A N. 1896 A, 206 ("selachier")
1918 A, 206.
1923 A, 389 ("elasmobranchier").
1923 B ("elasmobranchs").
1926 A, 531.
1926 D, 76 ("elasmobranchier")

- Sewerzoff and Disler 1924 A, 245 ("elasmobranchier").
 Shann, E. W. 1919 A, 532.
 Simpson, G. G. 1926 J, 173 ("elasmobranchs").
 Sollas and Sollas 1903 A, 288 ("elasmobranchs").
 Sones, F. 1907 A, 404 ("selachier").
 Spencer, W. B. 1886 A, 231 ("elasmobranchs").
 Springer, F. 1924 A, 234 ("selachian fishes").
 Stannius, H. 1854 A.
 Steinmann, G. 1907 A, 399.
 1908 A, 303 ("fische").
 Stensiö, E. A. 1925 A, 64.
 1925 B, 160, 179.
 Strecker, C. 1887 A, 301 ("fische").
 Stromer, E. 1905 C, 181 ("elasmobranchier").
 1905 F, 477.
 1912 A, 17, 47.
 1920 A, 12.
 1925 A, 16 ("elasmobranchier").
 Suschkin, P. 1910 A, 247 ("elasmobranchier").
 Swinnerton, H. H. 1911 A, 447 ("fishes").
 Terra, P. 1911 A, 135, 198.
 Tomes, C. S. 1875 C, 362.
 1876 A, 257.
 1898 B, 443 ("plagiostomes").
 1900 A, 35 ("plagiostomes").
 Traquair, R. H. 1899 C, 602 ("elasmobranchs").
 1900 C, 505.
 Van Wijhe, J. W. 1905 B, 319 ("selachier").
 Vest, O. 1924 A, 383 ("elasmobranchier").
 Versluys, J. 1922 B, 95 (Selachii).
 Virchow, H. 1895 A, 105 ("selachier").
- Watson, D. M. S. 1925 A, 815, 822, 825 ("elasmobranchs").
 Weber, E. H. 1821 A, 1060 (Chondropterygii).
 Weidenreich, F. 1922 A, 45 ("elasmobranchier").
 Whitehouse, R. H. 1910 C, 135 ("elasmobranchs").
 1914 A, 522 ("fishes").
 1918 A, 136 ("elasmobranchs").
 Wiedersheim, R. 1892 A, 43 ("fische").
 Wilbrand, J. B. 1824 A, 982 ("fische").
 Wilder, B. G. 1885 A, 56.
 Wintrebert, P. 1910 B, 78 ("selaciens").
 Woodward, A. S. 1898 E, 329 ("fishes").
 1910 B, 464 ("fishes").
 1915 B, lxxv.
 1917 D, lxx ("fishes").
 1921 B, 29 ("sharks, rays, chumeras").
 1922 C, 62.
 1924 B, 338.
 Woodward, H. 1878 A, 22 (Plagiostomi).
 1904 B, 140.
 Wright, E. P. 1878 A, 286 ("fishes").
 1878 B, 149 ("fishes").
 Wright, W. 1909 A, 670.
 Wyman, J. 1867 B, 264 ("fishes").
 Ziegler, H. E. 1901 A, 231 ("selachier").
 1908 B, 655 ("selachier").
 Zittel, K. A. 1901 A, 409 ("fishes").
 Zittel and Koken 1911 A, 39.
 Zittel and Schlosser 1923 A, 45.
 Zittel and Woodward 1902 A, 17 (Selachii).

Subclass TREMATOPNEI Bonaparte.

Bonaparte, C. L. 1831 A, 99, 121.

Unless otherwise indicated, the authors, as quoted, apply to this subclass the name Plagiostomi. It is often difficult to determine in just what sense writers employ their terms, systematic and vernacular Bonaparte here included Cyclostomi, but later removed them.

- Hay, O. P. 1902 A, 263 (Plagiostomata).
 Agassiz, A. 1877 A, 123 ("plagiostomes").
 Allis, E. P. 1905 A, 495.
 1914 A, 353 ("selachians").
 1918 B, 263.
 Anthony, R. 1912 A ("selaciens").
 Arldt, T. 1907 D, 674.
 Bender, O. 1907 A, 38 ("selachier").
 1910 A, 122 ("selachier").
 Bolk, L. 1914 A, 118 ("plagiostomen").
 Bonaparte, C. L. 1833 B, 1203.
 1840 A, 44.
 Braus, H. 1899 A, 501 ("selachier").
 Bridge, T. W. 1904 A, 148, 751.
 Brohmer, H. G. 1849 A, 830, seq.
 Bronn, H. G. 1849 A, 830, seq.
 Cartier, O. 1875 A, 65 ("plagiostomen").
 Cope, E. D. 1871 T, 449 (Selachii).
 Cunningham, J. T. 1912 A, 246.
 Davidoff, M. 1879 A ("plagiostomen").
 Day, E. C. H. 1885 A, 565.
 Dames, W. 1898 C, 331 ("sharks").
 Dean, B. 1903 A, 285 (Selacha).
 Derjugin, K. 1910 A, 587 (Selachii).
 Dohrn, A. 1884 A, 139 ("plagiostomen").

- Dollo, L. 1904 C, 47 ("elasmobranchs").
 Dormitzer, M. 1852 A, 61 ("plagiostomen").
 Duméril, A. 1856 A, 120 ("plagiostomen").
 Fahrenholz, C. 1915 A, 390 ("plagiostomen").
 Fitzinger, L. J. 1873 A, 54 (Plagiostomata).
 Huxley, T. H. 1876 E, 121.
 1883 B, 571.
 Fuchs, H. 1907 C, 27 ("plagiostomen").
 Furbringer, K. 1904 B, 458, 479 ("selachier").
 Garman, S. 1904 A, 246 ("plagiostomes").
 1913 A, 9, 10 (Plagiostomia).
 Gaupp, E. 1906 A, 27 ("selachier").
 1910 C.
 1911 A, 419 ("selachier").
 Gegenbaur, C. 1866 A, 123 ("selachier").
 1867 B, 380 ("selachier").
 1870 C, 399 ("selachier").
 1879 A, 522 ("selachier").
 Gill, T. 1905 A, 657.
 Goette, A. 1878 A, 12 ("plagiostomen").
 Goodrich, E. S. 1910 A, 24 ("selachians").
 Goodsir, J. 1857 B ("plagiostomes").
 Greene, J. R. 1861 A, 227.
 Haeckel, E. 1875 A, 516.
 1893 A, xviii.
 Hamburger, R. 1904 A, 79 ("selachier").
 Hilsheimer, M. 1913 A, 471.
 Hoernes, R. 1886 A, 540.
 Huxley, T. H. 1859 D 418 ("plagiostomes").
 1876 E, 121.
 1883 B, 571.
 Jaekel, O. 1903 D, 59 ("selachier").

- Jaekel, O. 1912 A, 621 ("selachier").
 Jordan, D S 1905 A, 1, 508; n, 591 (Selachu).
 1907 B, 182, 758 (Selachu).
 1923 A, 90 (Selachu).
 Kilham, G. 1891 A, 85 ("selachier").
 Kingsley, J. S 1885 A, 72.
 Klaatsch, H 1890 A, 119 ("plagiostomen").
 Lonnberg, E 1901 A
 1902 A.
 Lubosch, W. E 1908 A, 200 ("selachier").
 Meek, A 1907 A, 411 (Selachu)
 Miall, L. C 1872 A, 41
 Muller, J. 1845 A, 137
 Nunn, E. 1882 A, 160 ("plagiostomes").
 Nusbaum, J 1907 A, 309 ("selachier")
 Owen, R. 1868 A, 901.
 Parker, T J 1886 A, 635.
 Parker, W. K 1879 C, 331 ("selachians").
 Pompeckj, J. F. 1913 A, 1123
 Rabl, C. 1892 A, 10 ("selachier").
- Radcliffe, L. 1911 A, 243 (Plagiostoma).
 Rafinesque, C. S. 1815 A, 93 (Plagiostomia).
 Rantner, M. 1913 A, 1055, 1093.
 Regan, C. T. 1906 A, 722, 726 (Trematopnea)
 1912 A, 836 (Trematopnea).
 Reis, O. M 1893 A, 501.
 1894 A, 62 ("plagiostomen").
 Roth, W 1911 A, 518 ("plagiostomen").
 Sabatier, A 1904 A, 249 ("selaciens").
 Schmalhausen, J J 1913 A, 60 (Plagiostomata)
 Shann, E W 1919 A, 532
 Solger, B 1880 B, 458, pl xxxix ("selachier")
 Spengel, J. W. 1905 A, 332 ("elasmobranchier")
 Steinhild O 1903 A, 1 ("plagiostomen").
 Stromer, E 1912 A, 18, 47.
 Versluys, J. 1922 B, 95 (Selachu).
 Wallace, A R 1876 A, n, 460 (Plagiostomata).
 Wiedersheim, R 1892 A, 45 ("selachier")
 Ziegler, H. E 1908 A, 721 (selachier").

Superorder TAPINOSELACHII nom. nov.

To include Pleuropterygia, Ichthyotomi and Acanthodes

Order PLEUROPTERYGIA Dean.

- Unless otherwise indicated, the authors, as quoted, use the form Pleuropterygia.
- Hay, O P 1902 A, 272 (Pleuropterygia)
 Abel, O 1919 A 110 (Pleuropterygia)
 1920 A, 328 ("pleuropterygier").
 Arldt, T. 1923 A, 483 ("pleuropterygier").
 Backman, G 1915 A, 24
 Bridge, T. W 1904 A, 436
 Dean, B 1900 A, 22.
 1902 C, 702.
 1906 B, 155 ("pleuropterygians").
 1907 B, 220
 1909 C, 241
 Eastman, C R 1900 G, 287
 1907 B, 23, 54 (Pleuropterygia).
 1908 A, 69, 97.
 Gill, T 1905 A, 657
 Goodrich, E S 1908 A, 753.
 Gregory, W. K 1907 D, 445 (Pleuropterygia)
- Hussakof and Bryant 1919 A, 127
 Jordan, D S 1905 A, 1, 514, n, 586.
 1907 B, 758
 1923 A, 91
 Kner, J 1924 A, 100, 104 (Cladoselachu).
 Osburn, R C 1907 A, 420, 425 (Pleuropterygidae)
 1907 B 173 (Pleuropterygidae)
 Parker and Haswell 1857 A, 154 (Cladoselachea).
 Pompeckj, J. F 1913 A, 1122 (Cladoselachu).
 Regan, C T 1906 A, 722, 731
 1912 A, 836 (Pleuropterygia).
 Reynolds, S H 1897 A, 31, 63
 Swertsoff, A N 1926 B, 577, 579.
 Stromer, E 1920 A, 12, 15 (Cladoselachu).
 Woodward, A S. 1921 B, 29
 1922 C, 64
 Zittel and Woodward 1902 A, 19

CLADOSELACHIDÆ Dean.

- Hav, O P 1902 A, 272
 Arldt, T. 1923 A, 483 ("cladoselachier").
 Backman, G 1913 A, 54
 Braus, H 1906 A, 199 ("cladoselachiden")
 Bridge, T. W. 1904 A, 438.
 Dean, B. 1895 B, 424 ("cladoselachids")
 1902 A, 768, 770 ("cladoselachids")
 1907 B, 220 ("cladoselachians," Cladoselachia)
 1909 C, 212, 241 (Cladoselachia, Cladoselachidæ).
 1912 A, 227.
- Eastman, C R 1907 B, 23
 Goodrich, E S 1909 A, 187.
 Gregory, W. K 1907 D, 445 (Cladoselachu, Cladoselachidæ)
 1915 D, 343 (Cladoselachu)
 Hay, O. P 1901 B, 61, 69
 Jordan, D S. 1923 A, 91
 Osburn, R. G. 1907 B, 173.
 Regan, C. T. 1906 A, 722.
 Stromer, E 1912 A, 23 (Cladoselachu).
 Versluys, J. 1922 B, 102 (Cladoselachu).
 Woodward, A S. 1920 B, 5.

CLADOSELACHE Dean. Type *Cladodus fylleri* (Newb.).

- Hay, O. P. 1902 A, 272.
 Abel, O. 1912 F, 518.
 1920 A, 329.
 Backman, G. 1913 A, 48.
- Bridge, T. W. 1904 A, 438, 736.
 Cunningham, J. T. 1897 A, 496
 1912 A, 252
 Dames, W. 1898 C, 331.

- Daniel, J. F. 1922 A, 2, fig. 1.
 Dean, B. 1902 A, 768.
 1902 C, 702.
 1909 C, 244, fig. 41.
 Derjugin, K. 1910 B, 209.
 Eastman, C. R. 1900 G, 287.
 1901 C, 329.
 1905 A, 48.
 1907 B, 54.
 1908 A, 99.
 1911 B, 184.
 Goodrich, E. S. 1904 A, 492.
 1908 A, 754.
 1909 A, 184.
 Hay, O. P. 1901 B, 66, 69.
 Hussakof, L. 1910 B, 306.
 Jaekel, O. 1909 D, 711, fig. 3.
 Jordan, D. S. 1910 C, 186.
 1923 A, 91.
 Karpinsky, A. P. 1915 A, 129.
 1925 A, 128.
 Kemna, A. 1904 A, 20.
 Kerr, J. G. 1900 A, 230.
 Kiaer, J. 1924 A, 101, fig. 46.
 Kingsley, J. S. 1925 A, 232, fig. 244.
 Knipe, H. R. 1912 A, 40, fig.
 Lull, R. S. 1918 B, 203.
 Moodie, R. L. 1926 A, 69.
 Osborn, H. F. 1916 E, 604, fig. 13.
 Osburn, R. C. 1907 A, 425.
 1907 B, 172.
 Oswald, F. 1911 A, 407, fig. 5.
 Pompeckj, J. F. 1913 A, 1122, 1124.
 Regan, C. T. 1906 A, 731 (*Cladoselachus*).
 Renne, J. 1906 A, 431.
 Reynolds, S. H. 1897 A, 31, 63, 129.
 Semon, R. 1898 A, 105.
 Stromer, E. 1905 G, 478.
 Swinnerton, H. H. 1905 A, 373.
 1911 A, 453, fig. 12.
 Traquair, R. H. 1898 B, 44.
 1900 C, 505.
 Watson, D. M. S. 1925 A, 820, 824.
 Woodward, A. S. 1897 C, 379.
 1898 E, 329.
 1906 C, 273.
 1915 B, lxxv.
 1921 A, 179.
 1921 B, 29, fig. 1.
 1922 C, 64.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 19.
- Cladoselache acanthopterygius** Dean.
 Dean, B. 1909 C, 228, 237, 240, fig. 27.
 Hussakof and Bryant 1919 A, 128, pl. xiv, text-fig. 43.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache brachypterygius** Dean.
 Dean, B. 1909 C, 226, 240, pl. xxxii, text-figs 22, 23, 26.
 Hussakof and Bryant 1919 A, 129, pl. xlv.
 Upper Devonian (Cleveland); Ohio.
- Cladoselache clarki** (Claypole).
 Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 351 (*Cladodus*).
 Dean, B. 1909 C, 215, 220, 239, figs. 3, 13, 18a, 21.
 Eastman, C. R. 1937 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland), Ohio.
- Cladoselache desmopterygius** Dean.
 Dean, B. 1909 C, 227, 240, pl. xxiv, text-fig. 24.
 Hussakof and Bryant 1919 A, 130, pl. xlvii, text-figs. 44, 45.
 Upper Devonian (Cleveland?); Ohio?
- Cladoselache eastmani** Dean.
 Dean, B. 1909 C, 228, 240, fig. 25.
 Hussakof and Bryant 1919 A, 19, 133, text-fig. 46.
 Upper Devonian (Naples shale, Rhinestreet shale); New York.
- Cladoselache fyleri** (Newb.).
 Hay, O. P. 1902 A, 272.
 Abel, O. 1907 D, (162).
 1919 A, 113, figs. 72, 74 (*Cladodus*).
 1920 A, 329, fig. 520.
 1921 A, 248, fig. 90 (*Cladodus*).
 Backman, G. 1913 A, 50.
 Boker, H. 1927 A, 36 (*Cladodus*).
 Braus, H. 1901 A, 184, figs. 4, 6 (*Cladodus*).
 Bridge, T. W. 1904 A, 437, fig. 249.
 Claypole, E. W. 1903 A, 319, 346, 351 (*Cladodus*).
 Dean, B. 1902 D, 273, pl. viii, pl. ix, fig. 3.
 1909 C, 215, 239 pl. xxvi, text-figs. 1, 2, 5, 6, 9-11, 14-16, 19, 19a, 29-31, 34-36.
 Eastman, C. R. 1907 B, 18, fig. 14.
 1908 A, 61, 283 fig. 6.
 1911 A, 16, fig. 3.
 Frassetto, F. 1915 A, 5, figs. 1, 23, 24.
 Goodrich, E. S. 1909 A, 185, figs. 152, 153.
 Gregory, W. K. 1922 A, 5, fig. 2.
 Hussakof, L. 1908 A, 26.
 Hussakof and Bryant 1919 A, 134, pl. xlviii.
 Hyde, J. E. 1926 A, 498.
 Jaekel, O. 1909 D, 714, figs. 5, 6.
 Jordan, D. S. 1905 A, 1, 514, figs. 300-302.
 Pompeckj, J. F. 1913 A, 1122.
 Stensio, E. A. 1925 A, 125.
 Stromer, E. 1912 A, 22, fig. 30.
 Woodward, A. S. 1890 F, 147 (*Cladodus*).
 1906 C, 272, fig. 5.
 1921 B, 31.
 1924 A, 108, fig. 2.
 Zittel and Koken 1911 A, 44 figs. 60, 61.
 Upper Devonian (Cleveland), Ohio.
- Cladoselache kepleri** (Newb.).
 Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 346, 350 (*Cladodus*).
 Dean, B. 1902 D, 274.
 1909 C, 215, 239, pl. xxviii, figs. 4, 8, 18, 20.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Hussakof, L. 1908 A, 27.
 Hussakof and Bryant 1919 A, 135, pls. xlix, 1; text-figs. 47, 48.
 Hyde, J. E. 1926 A, 498.
 Upper Devonian (Cleveland); Ohio.

Cladoselache magnificus (Claypole).

- Hay, O. P. 1902 A, 269 (Cladodus).
 Dean, B. 1909 C, 213, 241.
 Savage, T. E. 1902 A, 262 (Cladodus).
 Mississippi; Alabama, Illinois, Indiana,
 Iowa?

Cladoselache newberryi Dean.

- Hay, O. P. 1902 A, 272
 Dean, B. 1909 C, 234, 240, pl. xxx, figs 33, 38
 Hussakof, L. 1908 A, 27.
 Hussakof and Bryant 1919 A, 128, 138, text-
 fig 49.
 Zittel and Woodward 1902 A, 19, fig. 34
 Mississippi (Waverly); Ohio.

Cladoselache pachypterygius Dean.

- Dean, B. 1909 C, 222, 241, fig. 17.
 Mississippi (Waverly); Kentucky.

Cladoselache rivi-petrosi (Claypole).

- Hay, O. P. 1902 A, 269 (Cladodus).

- Claypole, E. W. 1903 A, 319, 351 (Cladodus).
 Dean, B. 1902 C, 702 ("Cladoselacha").
 Eastman, C. R. 1907 B, 18 (Cladodus).
 1908 A, 283 (Cladodus).
 Upper Devonian (Cleveland); Ohio.

Cladoselache sinuatus (Claypole).

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 351 (Cladodus).
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.

Cladoselache sp. indet.

- Eastman, C. R. 1907 B, 17, 58, pl. viii. Upper
 Devonian (Chemung Portage); New York.
 1908 A, 281. Upper Devonian (Chemung
 Portage); New York.
 Hussakof, L. 1908 A, 27 Upper Devonian,
 (Cleveland); Ohio
 Hyde, J. E. 1926 A, 502, fig Devonian (Cleve-
 land); Ohio

CLADODONTIDÆ Nicholson and Lydekker.

- Hay, O. P. 1902 A, 267
 Abel, O. 1919 A, 115.
 Arlitt, T. 1923 A, 483 ("cladodonten")
 Braus, H. 1901 A, 179 ("cladodonten")
 Cope, E. D. 1891 N, 15
 Dean, B. 1909 C, 242
 Dollo, L. 1889 F, 338
 1903 D, 701 ("cladodontes")
 1906 B, 136 ("cladodontes")
 Eastman, C. R. 1907 B, 23 61.
 1908 A, 107.
 1917 A, 254
 Gilr, T. 1885 A, lviv.

- Goodrich, E. S. 1909 A, 183.
 Hay, O. P. 1901 B, 66, 69
 Jordan, D. S. 1905 A, 1, 520, II, 563
 1923 A, 92.
 Koken, E. 1893 B, 253
 1904 A, 305 ("cladodontiden").
 Regan, C. T. 1906 A, 722
 Rosen, N. 1916 A, 10
 Schlosser, M. 1917 A, 133 ("cladodontiden").
 Stensio, E. A. 1925 A, 125, 126 ("cladodontids,
 cladodontids")
 Zittel and Koken 1911 A, 44
 Zittel and Schlosser 1923 A, 52.

CLADODUS Agassiz. Type *C. mirabilis* Agassiz.

- Hay, O. P. 1902 A, 267 (Cladodus); 272 (Styp-
 tobasis).
 Abel, O. 1919 A, 114 figs. 73, 75.
 1920 A, 329 (Syn of Cladoselache).
 Agassiz, L. 1844 C, 267.
 Anonymous 1898 C, 74.
 Backman, G. 1913 A, 51
 Barkas, W. J. 1874 B, 164, figs 3-6.
 1874 D, 545
 Boker, H. 1927 A, 36.
 Braus, H. 1901 A, 183, fig. 2.
 1904 A, 412.
 Bronn, H. G. 1849 A, 650.
 Clark, W. 1898 A, 46.
 Claypole, E. W. 1903 A, 344, 347.
 Cushing, H. P. 1912 A, 582.
 Dames, W. 1898 C, 331.
 Dean, B. 1902 A, 769.
 1909 C, 249.
 Dollo, L. 1889 F, 337.
 Eastman, C. R. 1907 B, 61, 193.
 1908 A, 107.
 1917 A, 254
 Frassetto, F. 1915 A, 46.
 Giebel, C. G. 1855 A, 114.
 Goodrich, E. S. 1909 A, 50, 128, 184, figs. 68, 87.

- Hay, O. P. 1901 B, 66, 69 (Cladodus, Styp-
 tobasis)
 Hayden, F. V. 1872 A, 132.
 Howes, G. B. 1894 A, 84.
 Jaekel, O. 1892 B, 156
 1909 D, 711, figs 4, 7
 1911 A, 60, fig 60
 1913 A, 91.
 1921 A, 228, fig 8
 Jordan, D. S. 1919 B, 213.
 1923 A, 92.
 Karpinsky, A. 1915 A, 129
 Klaatsch, H. 1890 A, 122.
 Moodie, R. L. 1926 A, 66.
 Regan, C. T. 1906 A, 731.
 Reis, O. M. 1894 A, 50
 Rudewood, W. G. 1896 A, 382, fig. 6
 Rogers, A. F. 1924 A, 548.
 Savage, T. E. 1902 A, 257.
 Swinnerton, H. W. 1905 A, 373.
 Teller, E. E. 1906 A, 164.
 Thompson, J. 1872 A, 66.
 Traquair, R. H. 1898 B, 41, pl. iv.
 1900 C, 505.
 1905 A, 83.
 Twenhofel and Dunbar 1914 A, 160.

Weller, S. 1902 A, 427.

Woodward, A. S. 1924 A, 112.

Zittel and Koken 1911 A, 45.

Zittel and Schlosser 1923 A, 52, 54, fig. 70.

Zittel and Woodward 1902 A, 19.

***Cladodus aculeatus* (Cope).**

Hay, O. P. 1902 A, 272 (*Styptobasis*).

Pennsylvanian; Illinois.

***Cladodus acuminatus* Newb.**

Hay, O. P. 1902 A, 267

Pennsylvanian; Ohio.

***Cladodus alternatus* St. John and Worth.**

Hay, O. P. 1902 A, 268.

Eastman, C. R. 1908 A, 111.

Hennig, E. 1920 A, 17

Mississippian (Kinderhook, Burlington), Iowa.

***Cladodus angulatus* Newb. and Worth.**

Hay, O. P. 1902 A, 268

Mississippian (Keokuk); Illinois

***Cladodus bellifer* St. John and Worth.**

Hay, O. P. 1902 A, 268

Brongniart, C. 1888 C, 45, 47.

Mississippian (Burlington); Iowa

***Cladodus carinatus* St. John and Worth.**

Hay, O. P. 1902 A, 268.

Claypole, E. W. 1903 A, 319, 346

Pennsylvanian; Illinois, Iowa

***Cladodus claypolei* Hay.**

Hay, O. P. 1902 A, 268.

Eastman, C. R. 1907 B, 18.

1908 A, 282

Upper Devonian (Cleveland), Ohio

***Cladodus compressus* Branson.**

Branson, E. B. 1908 A, 312.

Branson, E. B. 1906 A, 1378, pl. xlii, figs. 1-4

(*C. striatus*, not of Agassiz).

Eastman, C. R. 1917 A, 256.

Hussakof, L. 1908 A, 24.

Mississippian (Salem); Indiana.

***Cladodus concinnus* Newb.**

Hay, O. P. 1902 A, 268.

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

1915 A, 283

Hussakof, L. 1908 A, 25.

Upper Devonian (Cleveland, Huron shale); Ohio.

***Cladodus coniger* Hay.**

Hay, O. P. 1902 A, 268.

Eastman, C. R. 1907 B, 20, 63.

1908 A, 109, 287.

Hennig, E. 1920 A, 17.

Hussakof and Bryant 1919 A, 139.

Upper Devonian (Chemung); Pennsylvania.

***Cladodus costatus* Newb. and Worth.**

Hay, O. P. 1902 A, 268.

Mississippian (Chester); Illinois

***Cladodus deflexus* Newb. and Worth.**

Hay, O. P. 1902 A, 268.

Mississippian (Burlington), Illinois.

***Cladodus eboreus* nom. nov.**

Eastman, C. R. 1917 A, 255, pl. x, fig. 4, pl.

xviii, fig. 1 (*C. aculeatus*, preoccupied).

Mississippian? (Caney); Oklahoma.

***Cladodus eccentricus* St. John and Worth.**

Hay, O. P. 1902 A, 268

Mississippian (St. Louis); Illinois, Missouri.

***Cladodus elegans* Newb. and Worth.**

Hay, O. P. 1902 A, 268

Mississippian (St. Louis); Missouri.

***Cladodus euglypheus* St. John and Worth.**

Hay, O. P. 1902 A, 268

Branson, E. B. 1906 A, 1378 (*C. euglyphæus*).

1908 A, 312.

Mississippian (St. Louis), Illinois, Missouri, Iowa

***Cladodus exiguus* St. John and Worth.**

Hay, O. P. 1902 A, 268

Eastman, C. R. 1908 A, 111.

Hennig, E. 1920 A, 17

Mississippian (Kinderhook); Iowa.

***Cladodus exilis* St. John and Worth.**

Hay, O. P. 1902 A, 268

Eastman, C. R. 1908 A, 111

Hennig, E. 1920 A, 17

Mississippian (Kinderhook); Iowa.

***Cladodus ferox* Newb. and Worth.**

Hay, O. P. 1902 A, 268.

Branson, E. B. 1906 A, 1376, pl. xli, figs. 3, 4

Mississippian (St. Louis); Missouri; (Salem), Indiana

***Cladodus formosus* Hay.**

Hay, O. P. 1902 D, 373, figure 1.

Cross, W. 1905 C, 5.

Eastman, C. R. 1908 A, 110, 286.

1915 A, 283

Hennig, E. 1920 A, 17.

Merrill, G. P. 1907 A, 7

Upper Devonian (Ouray); Colorado.

***Cladodus fulleri* St. John and Worth.**

Hay, O. P. 1902 A, 268

Pennsylvanian; Illinois, Iowa.

***Cladodus girtyi* Hay.**

Hay, O. P. 1902 A, 268

Cockerell, T. D. A. 1908 C, 161.

Eastman, C. R. 1903 B, 169.

Merrill, G. P. 1907 A, 7.

Pennsylvanian; Colorado.

Cladodus gomphoides St. John and Worth.

Hay, O. P. 1902 A, 268.
Mississippian (Burlington); Iowa.

Cladodus gracilis Newb. and Worth.

Hay, O. P. 1902 A, 268.
Eastman, C. R. 1917 A, 255.
Pennsylvanian; Indiana.

Cladodus grandis Newb. and Worth.

Hay, O. P. 1902 A, 268.
Mississippian (Chester), Illinois

Cladodus hertzeri Newb.

Hay, O. P. 1902 A, 268
Hussakof, L. 1908 A, 25
Mississippian (Waverly); Ohio

Cladodus horridus Newb.

Newberry, J. S. 1874 G, 98 (No description)
Mississippian (Waverly); Kentucky or Ohio

Cladodus indianensis Branson.

Branson, E. B. 1906 A, 1377, pl. xlii, figs 5-8.
Mississippian (Salem); Indiana.

Cladodus intercostatus St. John and Worth.

Hay, O. P. 1902 A, 269
Mississippian (Burlington, Keokuk), Iowa, Illinois

Cladodus irregularis Strong.

Strong, E. A. 1872 A, 2.
Mississippian; Michigan

Cladodus ischypus Newb. and Worth.

Hay, O. P. 1902 A, 269
Mississippian (St. Louis), Missouri

Cladodus keokuk St. John and Worth.

Hay, O. P. 1902 A, 269
Mississippian (Keokuk); Iowa, Illinois.

Cladodus knightianus (Cope).

Hay, O. P. 1902 A, 272 (Styptobasis).
Eastman, C. R. 1903 B, 168, pl. ii, fig. 4.
Knight, W. C. 1899 A, 365 (Styptobasis).
Permian (Chase); Nebraska.

Cladodus lamnoides Newb. and Worth.

Hay, O. P. 1902 A, 269.
Branson, E. B. 1906 A, 1378, pl. xlii, figs. 9, 10.
Mississippian (Keokuk); Illinois; (Salem); Indiana.

Cladodus micropus Newb. and Worth.

Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Illinois.

Cladodus monroei Eastman.

Hay, O. P. 1902 A, 269.
Cleveland, H. F. 1911 A, 147, pl. xlvii, fig. 3.
Eastman, C. R. 1907 B, 15, 62, pl. i, fig. 5.
1908 A, 108, 276, pl. i, fig. 17.
Hennig, E. 1920 A, 17.
Teller, E. E. 1911 A, 270.
Middle Devonian (Hamilton); Wisconsin.

Cladodus mortifer Newb. and Worth.

Hay, O. P. 1902 A, 269.
Branson, E. B. 1916 A, 652 (Syn. of *C. occidentalis*).
Hayden, F. V. 1872 A, 127.
Hussakof, L. 1908 A, 25.
Mason, S. C. 1883 A, 13.
Meek, F. B. 1869 A, 3.
1872 A, 101, 127.
Pennsylvanian; Illinois, Kansas.

Cladodus newmani Tuomey.

Hay, O. P. 1902 A, 269.
Mississippian, Alabama.

Cladodus occidentalis Leidy.

Hay, O. P. 1902 A, 269
Branson, E. B. 1916 A, 652, pl. ii, figs. 23, 24.
Eastman, C. R. 1903 B, 168, 169, pl. ii, figs. 3, 8, 9
Pennsylvanian (Missourian); Kansas, Illinois, Indiana, Iowa, Nebraska, Wyoming

Cladodus pandatus St. John and Worth.

Hay, O. P. 1902 A, 269
Pennsylvanian; Illinois.

Cladodus parvulus Newb.

Hay, O. P. 1902 A, 269
Claypole E. W. 1903 A, 319, 321
Hussakof, L. 1908 A, 25
Devonian (Cleveland); Ohio.

Cladodus pattersoni Newb.

Hay, O. P. 1902 A, 269
Claypole, E. W. 1903 A, 319, 321.
Miller, A. M. 1916 A, 72 ("Orodus").
Newberry, J. S. 1874 G, 94, 98.
Devonian (Waverly); Ohio, Kentucky.

Cladodus politus Newb. and Worth.

Hay, O. P. 1902 A, 269
Mississippian (Chester), Illinois.

Cladodus prænuntius St. John and Worth.

Hay, O. P. 1902 A, 269
Mississippian (Burlington); Iowa.

Cladodus prototypus Eastman.

Eastman, C. R. 1907 B, 13, 61, pl. i, fig. 15.
Eastman, C. R. 1908 A, 108, 276, pl. i, fig. 18.
Hennig, E. 1920 A, 17.
Hussakof, L. 1908 A, 25.
Stauffer, C. R. 1909 A, 169.
Middle Devonian (Columbus); Ohio.

Cladodus raricostatus St. John and Worth.

Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Iowa.

Cladodus robustus Newb. and Worth.

Hay, O. P. 1902 A, 269.
Mississippian (Keokuk); Illinois.

Cladodus romingeri Newb.

Hay, O P. 1902 A, 269.

Hussakof, L. 1908 A, 25.

Mississippian (Waverly), Michigan

Cladodus spinosus Newb. and Worth.

Hay, O. P. 1902 A, 269.

Branson, E. B. 1906 A, 1377, pl xli, figs 1, 2

Eastman, C. R. 1917 A, 254, pl vii, fig 7

Mississippian (St. Louis); Missouri, (Salem), Indiana

Cladodus splendens Newb.

Hay, O P. 1902 A, 269

Weller, S. 1926 A, 495, fig

Mississippian (Kinderhook); Iowa

Cladodus springeri St. John and Worth.

Hay, O P. 1902 A, 269

Brongniart, C. 1888 C, 45, 47

Eastman, C. R. 1908 A, 111

Hennig, E. 1920 A, 17

Mississippian (Kinderhook), Iowa

Cladodus stenopus Newb. and Worth.

Hay, O P. 1902 A, 270

Branson, E. B. 1906 A, 1377

Mississippian (St. Louis); Illinois.

Cladodus striatus Agassiz.

Hay, O P. 1902 A, 270

Branson, E. B. 1908 A, 311

Eastman, C. R. 1899 A, 642

Subcarboniferous; England, Ireland Devonian (Corniferous), Ohio

Cladodus subulatus Newb.

Hay, O P. 1902 A, 270

Eastman, C. R. 1907 B, 18.

1908 A, 283

Upper Devonian (Cleveland); Ohio.

Cladodus succinctus St. John and Worth.

Hay, O P. 1902 A, 270.

Eastman, C. R. 1908 A, 111.

Hennig, E. 1920 A, 17 (C. succinatus).

Mississippian (Kinderhook); Iowa

Cladodus terrelli Newb.

Hay, O P. 1902 A, 270

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18.

1908 A, 283

PHŒBODUS St. John and Worth.

Hay, O P. 1902 A, 270

Eastman, C. R. 1901 A, 795

1903 B, 195.

1907 B, 60

1908 A, 105.

Hay, O P. 1901 B, 66.

Hussakof and Bryant 1919 A, 148.

Jordan, D. S. 1923 A, 92.

Phæbodus dens-neptuni Eastman.

Eastman, C. R. 1903 B, 196; pl. iv, fig 39.

Mississippian (Keokuk); Iowa

Hussakof, L. 1908 A, 26

Upper Devonian (Cleveland); Ohio.

Cladodus tumidus Newb.

Hay, O P. 1902 A, 270

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18

1908 A, 283

Hussakof, L. 1908 A, 26

Upper Devonian (Cleveland), Ohio

Cladodus turritus Newb. and Worth.

Hay, O P. 1902 A, 270

Mississippian (Keokuk), Illinois.

Cladodus urbs-ludovici Eastman.

Eastman, C. R. 1908 A, 110, 281, pl iii, fig 3

Hennig, E. 1920 A, 17

Hussakof and Bryant 1919 A, 15, 17, 139, pl.

xliv, fig 1.

Upper Devonian (Genesee), Kentucky

Cladodus vanhornei St. John and Worth.

Hay, O P. 1902 A, 270

Mississippian (St. Louis); Illinois.

Cladodus wachsmuthi St. John and Worth.

Hay, O P. 1902 A, 270

Eastman, C. R. 1908 A, 111.

Mississippian (Kinderhook); Iowa

Cladodus zygopus Newb. and Worth.

Hay, O P. 1902 A, 270

Mississippian (Chester), Illinois

Cladodus sp. indet.Undetermined species of *Cladodus* have been reported as follows

Branson, E. B. 1906 A, 1379, pl xlii, fig 11

Mississippian (Salem), Indiana

Clarke, J. M. 1885 A, 72 Upper Devonian (Chemung), New York

Clarke and Luther 1904 A, 64. Devonian (Chemung), New York

Eastman, C. R. 1907 B, 20, 63 Upper Devonian (Chemung), New York.

1908 A, 287 Upper Devonian (Chemung).

New York

Twenhofel and Dunbar 1914 A, 160 Pennsylvanian; Kansas.

Van Tuyl, F. M. 1925 A, 140 Mississippian (Burlington), Iowa

Type P. sophæ St. John and Worth.**Phæbodus duplicatus** (Newb. and Worth.).

Hay, O P. 1902 A, 267 (Thrinacodus)

Eastman, C. R. 1903 B, 195.

Keyes, C. R. 1897 A, 332

Mississippian (Keokuk); Iowa

Phæbodus incurvus (Newb. and Worth.).

Hay, O. P. 1902 A, 195 (Thrinacodus)

Eastman, C. R. 1903 B, 195.

Mississippian (Keokuk), Illinois, Iowa.

Phœbodus knightianus Eastman.

Eastman, C. R. 1913 B, 169; pl. iv, fig 40.

Permian-Carboniferous (Chase); Nebraska

Phœbodus macisaacsii (St. John and Worth.).

Hay, O P 1902 A, 270.

Eastman, C R 1908 A, 106

Middle Devonian (Cedar Valley); Iowa.

Phœbodus politus Newb.

Hay, O P 1902 A, 270

Claypole, E W 1903 A 319

Eastman C R 1907 B, 18, 50, 233, pl. i, fig 12
1903 A, 106 282; pl. i, fig 9.

Hussakof, L. 1908 A, 28.

Upper Devonian (Cleveland), Ohio

Phœbodus sophiaæ St. John and Worth.

Hay, O. P 1902 A, 270.

Eastman, C R. 1908 A, 107 (Syn ? of P.
macisaacsii)

Middle Devonian (Cedar Valley); Iowa

Phœbodus springeri (St. John and Worth.).

Hay, O. P. 1902 A, 270

Mississippian (Kinderhook, Burlington),
Iowa.**LAMBODUS** St. John and Worth. Type *L. costatus* St. John and Worth.

Hay, O P 1902 A, 270

Hay, O P. 1901 B, 66

Jordan D S 1923 A 92

Traquair, R H 1905 A, 83

Lambdodus calceolus St. John and Worth.

Hay, O P 1902 A, 270.

Mississippian (Burlington), Iowa, Illinois
(Keokuk); Illinois, Iowa, Missouri.**Lambdodus costatus** St. John and Worth.

Hay, O P 1902 A, 271

Mississippian (Burlington); Iowa, Illinois:
(Keokuk); Illinois, Iowa, Missouri**Lambdodus hamulus** St. John and Worth.

Hay, O P. 1902 A, 271

Mississippian (Chester); Illinois.

Lambdodus reflexus St. John and Worth.

Hay, O P. 1902 A, 271.

Mississippian (Chester); Illinois

Lambdodus transversus St. John and Worth.

Hay O P 1902 A, 271.

Mississippian (St. Louis); Illinois.

CARCHAROPSIS Agassiz. Type *C. prototypus* Agassiz.

Hay, O P 1902 A, 271.

Ardt, T. 1923 A, 484.

Barkas, W J. 1874 D, 545.

Brown H G. 1848 A, 220.

1849 A, 646.

Eastman, C R 1917 A, 256 (Dicrenodus).

Gebel, C G 1855 A, 116 (Dicrenodus).

Hay O P. 1901 B, 66

Jordan, D S 1919 B, 214 (Syn. of Dicrenodus)

1920 C, 422 (Syn of Dicrenodus).

1923 A, 93

Karpinsky, A. 1902 A, 214

Carcharopsis texanus (Eastman).Eastman, C R 1917 A, 256, pl. vii, fig. 4
(Dicrenodus)

Pennsylvanian; Texas.

Carcharopsis wortheni Newb.

Hay, O. P 1902 A, 271.

Eastman, C. R. 1917 A, 256.

Mississippian; Alabama.

HYBOCLADODUS St. John and Worth. Type *H. phcatilis* St. J. and Worth.

Hay, O P. 1902 A, 271.

1901 B, 66

Jordan, D. S. 1923 A, 92.

Traquair, R. H. 1905 A, 83.

Hybocladodus compressus (Newb. and Worth.).

Hay, O P. 1902 A, 271

Mississippian (Burlington), Iowa.

Hybocladodus intermedius St. John and Worth.

Hay, O P. 1902 A, 271.

Mississippian (Keokuk); Illinois, Iowa.

Hybocladodus nitidus St. John and Worth.

Hay, O. P. 1902 A, 271

Mississippian (Chester); Illinois.

Hybocladodus plicatilis St. John and Worth.

Hay, O P. 1902 A, 271

Mississippian (Burlington), Iowa.

Hybocladodus tennicostatus St. John and Worth.

Hay, O P. 1902 A, 271

Mississippian (Keokuk); Illinois, Iowa.

MONOCLADODUS Claypole. Type *M. clarki* Claypole.

- Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 347, 351.
 Dean, B. 1909 C, 216. (Genus "abandoned")
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92.
 Traquair, R. H. 1905 A, 83.
Monocladodus clarki Claypole.
 Hay, O. P. 1902 A, 272.
 Claypole, E. W. 1903 A, 319, 351

- Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Upper Devonian (Cleveland); Ohio.

Monocladodus pinnatus Claypole.

- Hay, O. P. 1902 A, 272
 Claypole, E. W. 1903 A, 319, 352.
 Eastman, C. R. 1907 B, 18.
 1908 A, 283
 Upper Devonian (Cleveland); Ohio.

SYMMORIIDÆ Dean.

- Dean, B. 1909 C, 242.

SYMMORIUM Cope. Type *S. reniforme* Cope.

- Hay, O. P. 1902 A, 271
 Braus, H. 1901 A, 189.
 Dean, B. 1902 A, 769, 772.
 1909 C, 253.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92
 Regan, C. T. 1906 A, 731.

- Symmorium reniforme** Cope.
 Hay, O. P. 1902 A, 271
 Backman, G. 1913 A, 50, 52.
 Braus, H. 1904 A, 412.
 1901 A, 182, fig. 3.
 Goodrich, E. S. 1909 A, 128, fig. 87.
 Pennsylvanian; Illinois.

Superorder ICHTHYOTOMI Cope.

- Hay, O. P. 1902 A, 263 (Ichthyotomi, Pleuracanthides.)
 Abel, O. 1912 F, 440.
 1919 A, 116.
 1920 A, 329.
 Arldt, T. 1923 A, 483 ("ichthyotomen")
 Backman, G. 1915 A, 24.
 Braus, H. 1901 B, 218 ("pleuracanthiden").
 Bridge, T. W. 1904 A, 438, 743
 Cope, E. D. 1885 EE, 613.
 1891 N, 15.
 1900 A, 22 (Pleuracanthia).
 Dean, B. 1894 A, 110.
 1900 A, 22.
 1902 C, 702.
 1909 C, 242
 Depéret, C. 1907 B ("ichthyotomes").
 Eastman, C. R. 1902 C, 702.
 1907 B, 23, 58.
 1908 A, 69, 101.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 493.
 1908 A, 753 (Pleuracanthodii).
 1909 A, 180 (Pleuracanthodii)
 Gregory, W. K. 1907 D, 445 (Ichthyotomi, Pleuracanthidæ).

- Hæckel, E. 1893 A, xxiv (Proselachn).
 Jordan, D. S. 1905 A, i, 516, 520; ii, 218, 576.
 1907 B, 186, 219, 758
 1923 A, 91.
 Kehler, F. A. 1896 A, 348 ("proselachier").
 Lutken, C. 1868 C (Pleuracanthini).
 Osburn, R. C. 1907 A, 415 ("primitive sharks").
 Parker and Haswell 1897 A, 155 (Pleuracantha)
 Pompeckj, J. F. 1913 A, 1121.
 Regan, C. T. 1906 A, 722
 1912 A, 836
 Reynolds, S. H. 1897 A, 31, 62, 116, 130.
 Rosén, N. 1916 A, 10, 30.
 Schlosser, M. 1917 A, 147, 148.
 Sewertzoff, A. N. 1926 A, 536 (Pleurocanthodu)
 1926 B, 577.
 Stromer, E. 1912 A, 23
 Versluys, J. 1922 B, 102
 Woodward, A. S. 1911 C, 46 ("pleuracanthus").
 1921 B, 33.
 1922 C, 66.
 1924 A, 108.
 Zittel and Koken 1911 A, 41.
 Zittel and Schlosser 1923 A, 47, 49.
 Zittel and Woodward 1902 A, 22.

XENACANTHIDÆ Hoernes.

- Hoernes, R. 1886 A, 544 (earliest?).
 Unless otherwise indicated the authors, as quoted, use for this family the name Pleuracanthide
 Hay, O. P. 1902 A, 263.
 Abel, O. 1919 A, 118.
 Arldt, T. 1907 D, 252, 283 (Xenacanthidæ).
 Backman, G. 1913 A, 49 ("pleuracanthiden")
 Braus, H. 1901 A, 190 ("pleuracanthiden").
 1904 A, 395 ("xenacanthiden")
 1906 A, 173 ("xenacanthiden").
 Bridge, T. W. 1904 A, 440.

- Cope, E. D. 1891 N, 15.
 Dean, B. 1894 A ("xenacanthids").
 1906 B, 155 ("pleuracanthus").
 Dollo, L. 1889 F, 338
 1903 D, 701 ("pleuracanthus").
 1906 B, 136 ("pleuracanthiens").
 Evans, H. M. 1923 A, 17.
 Fuchs, H. 1907 C, 27 ("pleuracanthiden").
 Furrbringer, M. 1902 A, 194 (Xenacanthidæ).
 1904 B, 459, 489 ("pleuracanthiden").
 Gaupp, E. 1905 D, 877 ("pleuracanthiden").
 Gill, T. 1898 A, 697 (Xenacanthum).

- Goodrich, E. S. 1909 A, 183.
 Hay, O. P. 1901 B, 66, 69.
 Hilzheimer, M. 1913 A, 470.
 Hussakof, L. 1914 A, 267 ("pleuracanthus").
 Jaekel, O. 1909 D, 717 ("pleuracanthiden").
 1911 A, 61 ("pleuracanthiden").
 1913 A, 91 ("pleuracanthiden").
 Jordan, D. S. 1905 A, i, 520; ii, 586
 1907 B, 758.
 1923 A, 91 (Xenacanthidae).
 Klaatsch, H. 1890 A, 122 ("xenacanthiden").
 Koken, E. 1893 B, 253 ("pleuracanthiden").
 1904 A, 305 ("pleuracanthiden").

- Matthes, E. 1921 A, 225 (Pleuracanthus).
 Osburn, R. C. 1907 B, 173.
 Pompeckj, J. F. 1913 A, 1122 (Pleuracanthi).
 Rosén, N. 1916 A, 10.
 Schlosser, M. 1917 A, 133 ("pleuracanthiden").
 Schmalhausen, J. J. 1916 B, 147.
 Stensio, E. A. 1925 A, 126 ("pleuracanthids").
 Stromer, E. 1925 A, 19.
 Traquair, R. H. 1900 C, 505, 506.
 Woodward, A. S. 1920 B, 5.
 Zittel and Koken 1911 A, 42.
 Zittel and Schlosser 1923 A, 50.
 Zittel and Woodward 1902 A, 23

XENACANTHUS Beyrich. Type *Orthacanthus decheni* Goldfuss.

Beyrich, E. 1848, Archiv Min., Geog., etc.,
 Beihn, 24

Unless otherwise indicated the authors, as
 cited, use *Pleuracanthus*, which is preoccupied.

- Hay, O. P. 1902 A, 263.
 Abel, O. 1907 D, (159).
 1908 E, 410, fig. 4.
 1919 A, 118, fig. 76.
 1920 A, 329
 1921 A, 160, fig. 25
 Backman G. 1913 A, 48.
 Barkas, W. J. 1874 D, 547, 548 (Pleuracanthus,
 Xenacanthus).
 Beyrich, E. 1848 B, 646.
 Braus, H. 1904 A, 395, fig. 6 (Xenacanthus).
 Bridge, T. W. 1904 A, 438, 751, fig. 250.
 Brouh, F. 1904 B, 483.
 Bronn, H. G. 1849 A, 640.
 Case, E. C. 1915 A, 124.
 1926 B, 195 (Pleuracanthus).
 Cope, E. D. 1891 N, 15, fig. 6
 Cunningham, J. T. 1897 A, 492, 496.
 1912 A, 253.
 Deecke, W. 1913 A, 72.
 Dollo, L. 1889 F, 335.
 1906 B, 136.
 Eastman, C. R. 1908 A, 103, fig. 16.
 Evans, H. M. 1923 A, 17, text-figs. 10-14.
 Furbinger, M. 1902 A, 194 (Xenacanthus).
 Gill, T. 1881 A, 370.
 Gaupp, E. 1905 D, 874.
 Goette, A. 1901 A, 564, fig.
 Goodrich, E. S. 1904 A, 493 (Xenacanthus).
 1901 A, 315, figs. D, E.
 1909 A, 180, figs. 146-151.
 Gregory, W. K. 1904 A, 59.
 1915 D, 345.
 Hay, O. P. 1901 B, 66 (Pleuracanthus, Xena-
 canthus).
 Hilzheimer, M. 1913 A, 470, fig. 5
 Huber, O. 1901 A, 605 (Xenacanthus).
 Hussakof, L. 1911 A, 157.
 1914 A, 266.
 Huxley, T. H. 1862 A, xlix.
 Jaekel, O. 1905 C, 137; fig. 2.
 1906 A, 14, fig. 7.
 1906 C, 155.
 1911 A, 60; fig. 61.
 1913 A, 78, fig. 1.
 Jordan, D. S. 1905 A, i, 521 (Orthacanthus,
 Xenacanthus).

Jordan, D. S. 1919 B, 213 (Orthacanthus); 233
 (Xenacanthus).

1923 A, 92 (Xenacanthus)

- Kehrer, F. A. 1896 A, 348.
 Kingsley, J. S. 1925 A, 29, fig. 29.
 Koken, E. 1897 B, 253 (Xenacanthus)
 1907 A, 268.
 Luther, A. 1909 A, 14, 49
 Meek, A. 1916 A, 34, 38
 Osburn, R. C. 1907 A, 425
 1907 B, 172.
 Oswald, F. 1911 A, 407, fig. 6
 Pompeckj, J. F. 1913 A, 1123, fig. 22
 Price, P. H. 1927 A, 228, text-fig. 9
 Reus, O. M. 1894 A, 61.
 Reynolds, S. H. 1897 A, 130
 Schmalhausen, J. J. 1913 A, 21.
 Sewertzoff, A. N. 1923 B.
 1926 B, 578, fig. 12c
 Steinmann, G. 1907 A, 402, figs. 697, 698
 Stensio, E. A. 1925 A, 206
 1925 B, 189.
 Thomson, J. 1873 A, 187
 Traquair, R. H. 1893 B, 46
 Wellburn, E. D. 1901 B, 161
 Woodward, A. S. 1898 B, 20, 33, figs. 17, 18, 22,
 26.
 1915 B, lxxv.
 1921 B, 30, 33, fig. 1.
 1922 C, 66, fig. 62.
 1924 A, 108, fig. 2.
 1924 B, 340.
 Zierler, F. E. 1905 A, 511.
 Zittel and Koken 1911 A, 43, fig. 55.
 Zittel and Schlosser 1923 A, 50, figs. 66-69
 Zittel and Woodward 1902 A, 23
 Jordan (1923 A, 91) regards *Orthacanthus* as
 a genus distinct from *Xenacanthus*

Xenacanthus arcuatus (Newb.).

Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian (Coal-measures); Ohio.

Xenacanthus biserialis (Newb.).

Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian (Coal-measures); Ohio.

Xenacanthus dilatatus (Newb.).

Hay, O. P. 1902 A, 264 (Pleuracanthus).
 Pennsylvanian; Ohio.

Xenacanthus quadriseriatus (Cope).

- Hay, O P 1902 A, 264 (Pleuracanthus)
 Case, E C. 1900 A, 700, pl. 1, fig. 3 [P. (Orthacanthus)].
 1915 A, 96 (Pleuracanthus).
 Cope and Matthew 1915 A, pl. III, fig. 1 (Orthacanthus, Pleuracanthus).

Hussakof, L. 1911 A, 158, pl. xxvi, fig. 3 (Pleuracanthus).
 Pennsylvanian (Upper); Illinois: (Wichita, Clear Fork); Texas. (End); Oklahoma.

Xenacanthus sp. indet.

- Van Tuyl, F. M. 1925 A, 149, 154 (Pleuracanthus).
 Mississippian (Burlington, Keokuk), Iowa

ORTHACANTHUS Agassiz. Type *O. cylindricus* Agassiz.

- Hay, O P 1902 A, 264
 Barkas, W. J. 1874 D, 547.
 Brylich, E. 1848 B, 649
 Bronn, H. G. 1849 A, 540.
 Davis, J. W. 1880 C, 61.
 Goldfuss, A. 1847 A, 23, pl. v, figs. 9-11.
 Goodrich, E. S. 1909 A, 193
 Hay, O P 1901 B, 66
 Jordan, D. S. 1919 B, 213.
 1923 A, 91, 92

Orthacanthus gracilis Newb.

- Hay, O P. 1902 A, 264
 Case, E. C. 1900 A, 701, pl. 1, fig. 4 (Pleuracanthus (Orthacanthus)).
 1915 A, 96 (Pleuracanthus)
 Hussakof, L. 1911 A, 158, pl. xxvi, fig. 4 (Pleuracanthus)
 This species belongs not improbably to *Xenacanthus*.
 Pennsylvanian (Upper); Ohio.

COMPSACANTHUS Newb. Type *Pleuracanthus laevis* Newb.

- Hay, O P 1902 A, 265.
 Barkas, W. J. 1874 D, 545.
 Davis, J. W. 1880 C, 62.
 Hay, O P 1901 B, 66
 Jordan, D. S. 1919 B, 273 (Syn. of *Pleuracanthus*).
 1923 A, 92

Compsacanthus laevis Newb.

- Hay, O. P. 1902 A, 265
 Pennsylvanian (Linton); Ohio.

DIACRANODUS Garman. Type *Didymodus? compressus* Cope = *D. texensis* Cope.

- Hay, O P. 1902 A, 265
 Broili, F. 1904 B, 467
 Case, E. C. 1915 A, 124.
 Hay, O P 1901 B, 66.
 Hussakof, L. 1911 A, 159.
 1914 A, 266
 Jordan, D. S. 1919 B, 186 (Dicranodus).
 1923 A, 92

Dicranodus platypternus (Cope).

- Hay, O P 1902 A, 265
 Beede, J. W. 1907 A, 119.
 Case E. C. 1915 A, 96
 Eastman, C. R. 1903 B, 168 (Diplodus).
 Hussakof, L. 1908 A, 28 (Pleuracanthus).
 1911 A, 160, pl. xxx, fig. 8.
 Permian (Wichita? Clear Fork?); Texas

Dicranodus texensis (Cope).

- Hay, O P 1902 A, 265.

Beede, J. W. 1907 A, 119 139 (=D. compressus?).

- Broili, F. 1904 B, 467 pls. xxiv, xxv
 Case, E. C. 1900 A, 701, pl. 1, fig. 5 (Pleuracanthus compressus)
 1902 B, 62, 63 (D. compressus?).
 1915 A, 96

Cope and Matthew 1915 A, pl. III, figs. 2-4 (D. texensis, Diplodus compressus).

- Hickling, G. 1917 A, 79
 Hussakof, L. 1908 A, 28 (Pleuracanthus)
 1911 A, 159, pls. xxviii, xxix, pl. xxx, fig. 9
 Jordan, D. S. 1905 A, 1 521 (Dicranodus)
 Stromer, E. 1912 A, 4, fig. 4

Permian (Wichita? Clear Fork?), Texas (End); Oklahoma.

Dicranodus sp. indet.

- Wegeman, C. H. 1915 A, 25
 Permian (Wichita), Oklahoma

DITTODUS Owen. Type *Diplodus gibbosus* Agassiz.

- Hay, O P. 1902 A, 265
 Anonymous 1898 C, 74 (Diplodus).
 Atthey, T. 1868 C, 352, 372 (Dittodus), 371 (Diplodus).
 Barkas, W. J. 1874 D, 546 (Diplodus).
 Bronn H. G. 1848 A, 427 (Diplodus).
 1849 A, 650 (Diplodus).
 Case, E. C. 1908 C, 576 (Diplodus).
 1917 A, 125 (Diplodus).
 Davis, J. W. 1880 C, 61 (Diplodus).
 Eastman, C. R. 1907 B, 58 (Diplodus).
 1908 A, 104 (Diplodus).

- Hay, O. P. 1901 B, 66.
 Hussakof and Bryant 1919 A, 144.
 Jordan, D. S. 1905 A, 1, 521; II, 567.
 1907 B, 186.
 1919 B, 180.
 1923 A, 92
 Price, P. H. 1927 A, 215, 219, pls. xiv, xix, text-fig. 10 (Diplodus); 228 (Dittodus).
 Ridewood, W. G. 1896 A, 383 (Diplodus).
 Thomson, J. 1872 A, 66 (Diplodus).
 1873 A, 187 (Diplodus).
 Twenhofel and Dunbar 1914 A, 160 (Diplodus).

Wellburn, E. D. 1901 B, 162 (*Diplodus*, syn. of *Pleuracanthus*)
 Williamson, W. C. 1851 A, 630 (*Diplodus*).
 Zittel and Koken 1911 A 43 (*Diplodus*)
 Zittel and Schlosser 1923 A, 52 (*Dittodus*, *Diplodus*)

***Dittodus acinaces* (Dawson).**

Hay, O. P. 1902 A, 266
 Lambe, L. M. 1904 C, 19, 35, 40
 Carboniferous (Coal Measures), Nova Scotia.

***Dittodus compressus* (Newb.).**

Hay, O. P. 1902 A, 266
 Eastman, C. R. 1902 B, 97 (*Pleuracanthus*)
 1902 G, 540 (*Pleuracanthus*).
 1903 B, 167, 194 (*Pleuracanthus*).
 Hayden, F. V. 1872 A, 127 (*Diplodus*)
 Meek, F. B. 1869 A, 3 (*Diplodus*)
 1872 A, 127 (*Diplodus*)
 Pennsylvanian, Ohio Indiana, Illinois.

***Dittodus gibbosus* (Binney).**

Hay, O. P. 1902 A, 266
 Coal-measures, England Permian, Texas
 The Texan specimens may have been
 wrongly identified

***Dittodus grabani* Hussakof and Bryant.**
Hussakof and Bryant 1919 A, 15, 147, text-fig
 52.
 Upper Devonian (Genesee) New York.

***Dittodus gracilis* (Newb.).**

Hay, O. P. 1902 A, 266
 Pennsylvanian; Ohio

***Dittodus latus* (Newb.).**

Hay, O. P. 1902 A, 266
 Eastman, C. R. 1902 B, 97 (*Diplodus*)
 1902 G, 540 [*Pleuracanthus* (*Diplodus*)].
 1903 B, 194 [*Pleuracanthus* (*Diplodus*)]
Hussakof, L. 1908 A, 28
 Pennsylvanian; Indiana, Ohio, Illinois

***Dittodus lucasi* Hay.**

Hay, O. P. 1902 A, 266
 Eastman, C. R. 1902 B, 97 (*Diplodus*)
 1902 G, 540 [*Pleuracanthus* (*Diplodus*)]
 1903 B, 194 [*Pleuracanthus* (*Diplodus*)].
 Merrill, G. P. 1907 A, 10
 Pennsylvanian; Illinois.

***Dittodus penetrans* (Dawson).**

Hay, O. P. 1902 A, 266
 Lambe, L. M. 1904 C, 19, 35, 40
 Whiteaves, J. F. 1903 B, 29 (*Diplodus*. This
 species?)
 Pennsylvanian; Nova Scotia.

***Dittodus priscus* (Eastman).**

Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 20, 59, pl 1, figs 7, 8
 (*Diplodus*)
 1908 A, 104, 286, pl 1, figs 5, 13 (*Diplodus*)
Hussakof and Bryant 1919 A, 15, 17, 144, pl
 xlv, figs 3-3b, text-fig. 51.
 Upper Devonian, Illinois. (Genesee), New
 York

***Dittodus striatus* (Eastman).**

Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 20, 60, pl 1, figs. 10
 11 (*Diplodus*)
 1908 A, 105, 256, pl 1, figs 1, 16 (*Diplo-*
odus)
Hussakof and Bryant 1919 A, 15, 17, 146
 Upper Devonian, Illinois (Genesee), New
 York

***Dittodus washingtonensis* (Stauffer and Schroyer).**

Stauffer and Schroyer 1920 A, 147, pl. xiii fig
 40 (*Diplodus*)
 Permian (Washington), Ohio

***Dittodus* sp. indet.**

Doubtful remains of this genus are reported
 as follows
Bell, W. A. 1913 A, 340, 343 (*Diplodus*) Penn-
 sylvanian (Joggins), Nova Scotia
Bradley, F. H. 1866 A, 71 (*Diplodus*) Devon-
 ian (Hamilton), New York
Eastman, C. R. 1907 B, 20 (*Diplodus*) Upper
 Devonian; Illinois
 1908 A, 286 (*Diplodus*)
Hussakof and Bryant 1919 A, 19, 149 Upper
 Devonian (Portage), New York. (Tully).
 New York
Twenhofel and Dunbar 1914 A, 160 Pennsylv-
 anian, Kansas
Williston, S. W. 1897 K, 395 ("Didymodus")
 Permian, Kansas

PROTODUS A. S. Woodward. Type *P. jezi* A. S. Woodward.

Hay, O. P. 1902 A, 266
 Eastman, C. R. 1902 B, 56.
 1902 H, 150
 1903 D, 285.
 1908 A, 100.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 92.
 Whiteaves, J. F. 1907 B, 255
 Woodward, A. S. 1904 C, 188, fig. 2
 1915 B, lvi, fig 1.
 1920 B, 5
 Zittel and Woodward 1902 A, 20.

***Protodus jexi* A. S. Woodward.**

Hay, O. P. 1902 A, 266.
 Eastman, C. R. 1907 B, 13.
 1908 A, 275.
 Jaekel, O. 1895 C, 161.
 Lambe, L. M. 1904 C, 33, 40.
 Whiteaves, J. F. 1907 B, 256
 Lower Devonian; New Brunswick

THRINACODUS St. John and Worth.

- Hay, O. P. 1902 A, 266.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 330
 1923 A, 92

Thrinacodus bicornis Newb.

- Hay, O. P. 1902 A, 267

Type *T. nanus* St. John and Worth.

- Branson, E. B. 1906 A, 1394.
 Mississippian (Salem), Indiana.

Thrinacodus nanus St. John and Worth.

- Hay, O. P. 1902 A, 267
 Mississippian (Kinderhook); Iowa

DOLIODUS Traquair. Type *Diplodus problematicus* A. S. Woodward.

- Hay, O. P. 1902 A, 267
 Hay, O. P. 1901 B, 66.

Doliodus problematicus (A. S. Woodward).

- Hay, O. P. 1902 A, 267.

- Eastman, C. R. 1907 B, 13.
 1908 A, 275
 Jaekel, O. 1895 C, 161 (Diplodus).
 Lambe, L. M. 1904 C, 16, 33, 40.
 Whiteaves, J. F. 1907 B, 257
 Lower Devonian, New Brunswick

Order ACANTHODEI Owen.

Owen, R. 1846 E, 50

- Hay, O. P. 1902 A, 273 (Acanthodu)
 Abel, O. 1919 A, 147.
 1920 A, 332.
 1921 A, 249 (Acanthodu)
 Agassiz, L. 1844 D, 142 ("acanthodiens").
 Arlitt, T. 1923 A, 483 ("acanthoden").
 Barrell, J. 1915 B, 392, 402 (Acanthodu).
 Bridge, T. W. 1904 A, 440
 Bronn, H. G. 1849 A, 780 seq
 Cope, E. D. 1891 N, 15, 18.
 Cunningham, J. T. 1912 A, 253 ("acanthodians")
 Dean, B. 1894 A, 88, 105, 109, 111 ("acanthodians")
 1900 A, 22, 28 (Acanthodia)
 1902 A, 770 ("acanthodians")
 1907 B, 220 (Acanthodia)
 1909 C, 242 (Acanthodia).
 1912 A, 227 ("acanthodians").
 Dollo, L. 1906 B, 135 ("acanthodiens").
 Eastman, C. R. 1902 B, 92 (Acanthodu).
 1907 B, 23, 63 (Acanthodu).
 1908 A, 59, 69, 95, 112 (Acanthodu).
 Frech, F. 1897 A, 123 (Acanthodu).
 Giebel, C. G. 1855 A, 113 (Acanthodu).
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 492 (Acanthodu)
 1908 A, 771 (Acanthodu).
 1909 A, 187 (Acanthodu)
 Gregory, W. K. 1907 D, 445.
 1915 D, 320, 343 (Acanthodu)
 Haller, G. 1926 A, 447, 456 (Acanthodi).
 Hay, O. P. 1901 B, 69 (Acanthodu).
 Huene, F. 1926 A, 260 ("acanthodi").

- Hussakof and Bryant 1919 A, 127, 140 (Acanthodu)
 Jaekel, O. 1911 A, 69, 72 (Acanthodi)
 Jordan, D. S. 1905 A, i, 514, ii, 555
 1907 B, 758.
 1923 A, 91.
 Kjaer, J. 1924 A, 100, 101, 102, 104, 108, 110 (Acanthodu)
 Lutken, C. 1868 C (Acanthodini).
 Meek, A. 1916 A, 34, 36
 Owen, R. 1860 E, 130 (Acanthodu).
 1866 A, 12
 Parker and Haswell 1897 A, 155 (Acanthodea).
 Pompeckj, J. F. 1913 A, 1120 (Acanthodi).
 Regan, C. T. 1906 A, 722 (Acanthodu)
 Rosén, N. 1916 A, 10, 30 (Acanthodu).
 Schlosser, M. 1917 A, 133, 134, 147 ("acanthodier")
 Schuchert and Levene 1927 A, 288 ("acanthodians").
 Steinmann, G. 1907 A, 405 (Acanthodini)
 Stromer, E. 1912 A, 23, 47 (Acanthodu)
 1920 A, 11, 14, 17 (Acanthodi)
 Versluys, J. 1922 B, 102 (Acanthodi).
 1922 C, 62 (Acanthodu)
 Woodward, A. S. 1906 A, 313 (Acanthodu)
 1906 C, 270 ("acanthodians")
 1910 D, 31 ("acanthodians").
 1911 C, 45 ("acanthodian sharks").
 1917 A, 75 ("acanthodians").
 1924 A, 106 ("acanthodians").
 Zittel and Koken 1911 A, 46 (Acanthodi)
 Zittel and Schlosser 1923 A, 47 (Acanthodi)
 Zittel and Woodward 1902 A, 20 (Acanthodu)

GYRACANTHIDÆ Woodward.

- Woodward, A. S. 1906 D, 3.
 Goodrich, E. S. 1909 A, 192.

- Hussakof and Bryant 1919 A, 124, 142.
 Jordan, D. S. 1923 A, 92

GYRACANTHUS Agassiz. Type *G. formosus* Agassiz.

- Hay, O. P. 1902 A, 335.
 Agassiz, L. 1835 D, 189.
 Atthey, T. 1868 C, 368.
 Barkas, W. J. 1874 D, 546.
 Bronn, H. G. 1848 A, 559
 1849 A, 649.

- Connell, A. 1835 A, 301.
 1835 B, 191 (Lepidosteus).
 Dollo, L. 1889 F, 325.
 Eastman, C. R. 1907 B, 86.
 1908 A, 114.
 Goodrich, E. S. 1909 A, 192, fig. 165.

- Gregory, W. K. 1915 D, 343.
 Heilprin, A. 1887 A, 152.
 Hussakof and Bryant 1919 A, 140.
 Jordan, D. S. 1919 B, 188.
 1923 A, 92.
 Lambe, L. M. 1916 A, 198.
 Osburn, R. C. 1907 A, 432.
 Reis, O. M. 1894 A, 60.
 Thomson, J. 1872 A, 66.
 Woodward, A. S. 1924 A, 107.

Gyracanthus alleni Newb.

- Hay, O. P. 1902 A, 335
 Hussakof, L. 1908 A, 47
 Newberry, J. S. 1874 G, 98
 Mississippian (Waverly); Ohio.

Gyracanthus compressus Newb.

- Hay, O. P. 1902 A, 335.
 Hussakof, L. 1908 A, 48
 Newberry, J. S. 1874 G, 98.
 Mississippian (Waverly); Ohio: Indiana.

Gyracanthus? cordatus St. John and Worth.

- Hay, O. P. 1902 A, 335
 Mississippian (Keokuk); Missouri.

Gyracanthus duplicatus Dawson.

- Hay, O. P. 1902 A, 335
 Bell, W. A. 1913 A, 340, 343.
 Lambe, L. M. 1904 C, 19, 35, 42.
 Carboniferous (Joggins); Nova Scotia.

Gyracanthus incurvus Traquair.

- Hay, O. P. 1902 A, 335
 Eastman, C. R. 1907 B, 13.
 1908 A, 276.
 Hussakof and Bryant 1919 A, 143.

ORACANTHUS Agassiz. Type *O. milleri* Agassiz.

- Hay, O. P. 1902 A, 334
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 847.
 1849 A, 649.
 Dames, W. 1898 C, 331.
 Eastman, C. R. 1902 H, 150.
 1917 A, 267.
 Egerton, P. G. 1853 C, 282.
 Etheridge, R. 1877 A, 307, pl. xiii, figs. 4-6
 Evans, H. M. 1904 A, 399.
 Goodrich, E. S. 1909 A, 193.
 Heilprin, A. 1889 A, 152.
 Jordan, D. S. 1919 B, 186 (Type *O. milleri* Ag.)
 Woodward, A. S. 1915 B, lxx, fig. 2.

Oracanthus lineatus Newb.

- Hay, O. P. 1902 A, 334.
 Mississippian (Locality and formation not given)

Oracanthus multiseriatus Newb.

- Hay, O. P. 1902 A, 334.
 Claypole, E. W. 1903 A, 318.
 Devonian (Helderberg); Ohio.

- Lambe, L. M. 1904 C, 16, 34, 42.
 Whiteaves, J. F. 1907 B, 258.
 Lower Devonian; New Brunswick.

Gyracanthus inornatus Newb.

- Hay, O. P. 1902 A, 335
 Hussakof, L. 1908 A, 48
 Mississippian (Waverly); Ohio.

Gyracanthus magnificus Dawson.

- Hay, O. P. 1902 A, 335
 Lambe, L. M. 1904 C, 18, 34, 42.
 Mississippian; Cape Breton

Gyracanthus primævus Eastman.

- Eastman, C. R. 1908 A, 114, fig. 17.
 Hussakof and Bryant 1919 A, 143.
 Devonian (Marcellus); New York.

Gyracanthus sarlei Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 142, pl. lu, figs. 3-5.
 Upper Devonian (Genesee); New York.

Gyracanthus sherwoodi Newb.

- Hay, O. P. 1902 A, 335
 Butts, C. 1903 A, 991.
 Claypole, E. W. 1903 A, 319
 Eastman, C. R. 1907 B, 21, 22, 87, 230, pl. iii, fig. 7.
 1908 A, 287, 289.
 Hussakof, L. 1908 A, 48.
 Upper Devonian (Catskill and Chemung); Pennsylvania: (Chemung), New York.

Gyracanthus sp. indet.

- Hussakof and Bryant 1919 A, 15, 144, pl. lii fig. 4
 Upper Devonian (Genesee); New York.

Oracanthus? obliquus St. John and Worth.

- Hay, O. P. 1902 A, 334
 Mississippian (St. Louis); Illinois, Missouri, Iowa

Oracanthus pnigeus Newb. and Worth.

- Hay, O. P. 1902 A, 334.
 Mississippian (Keokuk); Iowa

Oracanthus rectus St. John and Worth.

- Hay, O. P. 1902 A, 335.
 Eastman, C. R. 1917 A, 268.
 Mississippian (Chester); Illinois.

Oracanthus triangularis Eastman.

- Eastman, C. R. 1917 A, 268, pl. v, figs. 5, 6
 St. John and Worthen 1883 A, pl. xxv, fig. 2
 (*O. vetustus* fide Eastman).
 Mississippian (St. Louis); Missouri.

Oracanthus trigonalis (St. John and Worth.).

- Hay, O. P. 1902 A, 335.
 Mississippian (St. Louis); Missouri

Oracanthus vetustus Leidy.

- Hay, O. P. 1902 A, 335.
 Abel, O. 1912 F, 569, fig. 442
 Eastman, C. R. 1902 E, 852
 1903 B, 213

- Eastman, C. R. 1917 A, 267, 268, pl. vi, fig. 2.
 Karpinsky, A. P. 1925 A, 136.
 Mississippian (Kinderhook, St. Louis,
 Chester?); Missouri, Illinois.

ACANTHOESSIDÆ Hay.

Unless otherwise indicated the authors, as quoted, use the name *Acanthodidæ*.

Hay, O. P. 1902 A, 273 (*Acanthoessidæ*).

Abel, O. 1919 A, 151

Ardt, T. 1907 D, 635

1923 A, 483, 490 ("acanthodiden")

Bridge, T. W. 1878 A, 722.

1904 A, 441.

Carus, V. 1875 A, 595

Cope, E. D. 1891 N, 19

Coulon, L. 1903 A, 136

Dean, B. 1907 B, 209 ("acanthodians").

Eastman, C. R. 1907 B, 23.

Goodrich, E. S. 1909 A, 192.

Gregory, W. K. 1907 D, 445

Hay, O. P. 1901 B, 66, 69

Hilzheimer, M. 1913 A, 471.

Hoernes, R. 1886 A, 548.

Huxley, T. H. 1861 D, 457.

Jackel, O. 1899 C, 249 ("acanthodier")

Jordan, D. S. 1905 A, 1, 516, 11, 555.

Jordan D. S. 1907 B, 758

1923 A, 91

Kiaer, J. 1924 A, 108 (*Acanthodu*)

Lonnberg, E. 1901 A

Lutken, C. 1871 A, 292, 294 ("acanthodiens")

Osburn, R. C. 1907 A, 425.

1907 B, 173.

Owen, R. 1866 A, 12 (*Acanthodes*).

Pompeckj, J. F. 1913 A, 1121

Pownie, J. 1870 A, 287

Reis, O. M. 1894 A, 49 ("acanthodinen").

Sewertzoff, A. N. 1923 B, 106

Stensio, E. A. 1925 B, 163 ("acanthodians")

Traquair, R. H. 1880 A, 147.

1890 A, 21.

1893 E, 176 ("acanthodians").

Trouessart, E. L. 1906 A, 213.

Woodward, A. S. 1915 B, lxxv (*acanthodians*)

Zittel and Koken 1911 A, 47.

Zittel and Schlosser 1923 A, 48

Zittel and Woodward 1902 A, 20

ACANTHOËSSUS Agassiz. Type *A. bronni* Agassiz.

Unless otherwise indicated the authors, as quoted, use the name *Acanthodes* for this genus. It is antedated by *Acanthoëssus*.

Agassiz, L. 1832 A, 149

Hay, O. P. 1902 A, 273 (*Acanthoëssus*)

Abel, O. 1912 F, 518.

1919 A, 152, figs. 113-115.

1920 A, 332, fig. 528

Agassiz, L. 1833 A, 471

1835 H, 204.

1844 C, 269

1877 A, 124.

Allis, E. P. 1905 A, 488.

Barkas, W. J. 1874 D, 548.

Bridge, T. W. 1904 A, 442, fig. 251

Bronn, H. G. 1848 A, 2

1849 A, 656

Case, E. C. 1926 B, 105.

Coulon, L. 1903 A, 136 (*Acanthodes* = *Cheiracanthus*).

Cunningham, J. T. 1897 A, 496

Dean, B. 1894 A, 99

1902 A, 768.

1902 C, 702.

1907 B, 209.

Deecke, W. 1913 A, 72.

Dollo, L. 1906 B, 135

Eastman, C. R. 1900 G, 287

1902 G, 536.

Goodrich, E. S. 1908 A, 771, fig. 204.

1909 A, 505, figs.

Haller, G. 1926 A, 455, fig. 3

Hay, O. P. 1901 B, 66, 69

Hoernes, R. 1886 A, 548.

Huxley, T. H. 1861 D, 444.

Jackel, O. 1892 B, 156

1899 C, 250, figs. 1, 2.

1902 A, 108.

1902 C, 610.

1903 A, 123

1903 F, 48, fig. 10

1905 C, 136, fig. 1.

1906 A, 10, figs. 4, 8

1907 A, 180, fig. 6.

1911 A, 71, fig. 75

1913 A, 79, fig. 2

1918 A, 231, fig. 1.

1919 A, 84, 108.

1921 A, 225, fig. 6.

1927 A, 266 (*Acanthodes*).

Jordan, D. S. 1903 A, 135

1905 A, 1, 516, 11, 555.

1919 B, 177.

1923 A, 91.

Jordan and Evermann 1917 A, 141, 145, 146

Kiaer, J. 1924 A, 102, 108.

Klaatsch, H. 1890 A, 144.

Koken, E. 1907 A, 269.

Lutken, C. 1868 C, 69, fig. 11.

Matthes, E. 1921 A, 220, 225.

Mimer, R. W. 1925 A, 195

Oswald, F. 1911 A, 407, fig. 4.

Pompeckj, J. F. 1913 A, 1120, figs. 18, 19

Pownie, J. 1870 A, 287, 288, pl. x.

Reis, O. M. 1893 A, 495.

1894 A, 49.

Rosén, N. 1916 A, 9, fig. 4.

Smith, B. 1910 A, 662 ("acanthodian").

Traquair, R. H. 1879 B, 115.

1879 C, 129.

Traquair, R. H. 1890 H. 482, fig. 1.
1893 E, 177.

Whiteaves, J. F. 1907 B, 247 (Mesacanthus).

Woodward, A. S. 1900 E, 203

1906 C, 271, fig. 4

1922 C, 63, fig. 60.

1924 A, 107, fig. 1.

Zittel and Koken 1911 A, 47.

Zittel and Schlosser 1923 A, 48, figs 63, 64

Zittel and Woodward 1902 A, 21

Acanthoëssus affinis (Whiteaves).

Hav O P 1902 A, 273

Eastman C R 1902 B 93, 95 (Mesacanthus)

1902 G 536 (Acanthodes).

1907 B, 16 (Acanthodes).

1908 A, 280 (Acanthodes)

Lambe, L. M. 1904 C, 34 41 (Acanthodes).

Smith B 1910 A, 663 (Acanthodes)

Whiteaves, J. F. 1907 B, 247 (Mesacanthus)

Zittel and Woodward 1902 B, 21 (Mesacanthus)

Upper Devonian; Quebec

Acanthoëssus beecheri (Eastman).

Eastman C. R. 1902 B 94 97, fig 14 (Acanthodes)

Eastman C R. 1902 G, 537, fig 2 (Acanthodes).

1903 B, 194 (Acanthodes)

Pennsylvanian (Mazon Creek); Illinois.

Acanthoëssus concinnus (Whiteaves).

Hav O P 1902 A 273

Clarke J M 1913 A, 113 (Acanthodes)

Eastman C R 1902 B 93 (Mesacanthus).

1907 B, 16 (Acanthodes)

1908 A, 280 (Acanthodes)

Hussakof and Bryant 1919 A, 141, pl II, figs

2, 3; text-fig 50 (Acanthodes)

Lambe, L. M. 1904 C, 34, 41 (Acanthodes).

Smith, B. 1910 A, 663 (Acanthodes).

Whiteaves, J. F. 1907 B, 246 (Acanthodes)

Upper Devonian (Scaumenac), Quebec

Acanthoëssus marshi (Eastman).

Eastman, C. R. 1902 B, 93, 97, pl. vi, fig 3; pl vii, figs. 1, 2 (Acanthodes).

Eastman, C R. 1901 A, 795 (Acanthodes sp.)

1902 G, 536, fig. 1 (Acanthodes).

1903 B, 194 (Acanthodes).

Pennsylvanian (Mazon Creek), Illinois.

Acanthoëssus? pristis (Clarke).

Hav. O P. 1902 A, 273

Clarke and Luther 1904 A, 62 (Acanthodes)

Eastman, C. R. 1902 B, 92 (Acanthodes?)

1902 G, 536 (Acanthodes).

1907 B, 17, 64 (Acanthodes?).

1908 A, 113, 281 (Acanthodes?).

Merrill, G P 1907 A 5 (Acanthodes?)

Smith, B. 1910 A 663 (Acanthodes?)

Upper Devonian (Portage), New York

Acanthoëssus semistriatus (A. S. Woodward).

Hav, O P 1902 A, 273

Eastman, C R. 1907 B, 13 (Acanthodes)

1908 A, 275 (Acanthodes).

Lambe, L. M. 1904 C, 34, 41 (Acanthodes)

Smith, B. 1910 A, 663 (Acanthodes)

Whiteaves, J. F. 1907 B, 256 (Mesacanthus).

Lower Devonian, New Brunswick

CHEIRACANTHUS Agassiz. Type *C. munchisoni* Agassiz.

Hay O P 1902 A, 274.

Agassiz, L. 1844 C 269

Barkas, W. J. 1874 D 548 (Sphagodus). 549
(Cheiracanthus)

Bronn H G 1848 A 285

1849 A 656

Coulon L 1903 A 136 (= Acanthodes).

Dean B. 1902 A 768

1907 B, 209.

Dollo, L. 1889 F, 337 (Sphenacanthus)

Egerton, P. G. 1861 B, 1, pl. x.

Goodrich, E. S. 1909 A, 189 fig 158

Hay, O P 1901 B 66

Huxley, T. H. 1861 D, 458

Jordan, D. S. 1905 A, 1 517

1923 A, 91.

Klaatsch, H. 1890 A, 144.

Osborn, H. F. 1917 B, 170, fig.

Zittel and Koken 1911 A, 47.

Zittel and Schlosser 1923 A, 49

Zittel and Woodward 1902 A, 21

Cheiracanthus costellatus Traquair.

Hay, O. P 1902 A, 274

Eastman, C R 1907 B, 13

1908 A, 275.

Lambe, L. M. 1904 C, 34, 41.

Smith, B. 1910 A, 663.

Whiteaves, J. F. 1907 B, 256

Zittel and Woodward 1902 A, 27 (Sphenacanthus)

Devonian (Lower); New Brunswick

DIPLACANTHIDÆ Cope.

Cope, E. D. 1891 N, 19.

Hav O P 1902 A, 274.

Ardt, T. 1923 A, 483 ("diplocanthiden").

Bridge, T. W. 1904 A, 441.

Eastman, C R 1907 B, 23

1908 A, 112.

1917 A, 237.

Gregory, W. K. 1907 D, 445.

Jaekel, O. 1911 A, 72 (Diplacanthu).

Jordan, D. S. 1905 A, 1, 517; II, 566

1907 B, 758.

1923 A, 91.

Knaer, J. 1924 A, 102.

Osborn, R. C. 1907 A, 425.

Zittel and Koken 1911 A, 48.

Zittel and Schlosser 1923 A, 49

Zittel and Woodward 1902 A, 22.

DIPLACANTHUS Agassiz. Type *D. crassissimus* Duff.

- Hay, O. P. 1902 A, 274.
 Agassiz, A. 1844 C, 269.
 1877 A, 124
 Barkas, W. J. 1874 D, 550.
 Bridge, T. W. 1904 A, 440.
 Bronn, H. G. 1848 A, 426.
 1849 A, 656.
 Dean, B. 1902 A, 768.
 1907 B, 209
 Egerton, P. G. 1854 A, 369
 Hay, O. P. 1901 B, 66.
 Jaekel, O. 1911 A, 72, fig. 76
 Jordan, D. S. 1919 B, 210.
 1923 A, 91
 Knaer, J. 1924 A, 103, fig. 47
 Osborn, H. F. 1916 E, 606, fig. 14.
 1917 B, 167, 170, fig.
 Powrie, J. 1870 A, 287, 289, pl. x.
 Traquair, R. H. 1893 E, 177.
 Zittel and Koken 1911 A, 48
 Zittel and Woodward 1902 A, 22.
Diplacanthus crassissimus Duff.
 Hay, O. P. 1902 A, 274.

- Clarke, J. M. 1913 A, 115 (*D. striatus*)
 Dean, B. 1907 B, 218 (*D. striatus*).
 Eastman, C. R. 1907 B, 16 (*D. striatus*)
 1908 A, 230 (*D. striatus*).
 Lambe, L. M. 1904 C, 34, 40 (*D. striatus*)
 Smith, B. 1910 A, 663 (*D. striatus*).
 Devonian (Lower Old Red), Scotland.
 Upper Devonian (Scaumenac); Quebec.

Diplacanthus horridus Woodward.

- Woodward, A. S. 1892 C, 482, pl. xiii, fig. 1.
 Clarke, J. M. 1913 A, 115
 Eastman, C. R. 1907 B, 16.
 1908 A, 280.
 Lambe, L. M. 1904 C, 34, 40.
 Smith, B. 1910 A, 663
 Whiteaves, J. F. 1907 B, 247.
 Upper Devonian (Scaumenac); Quebec.

Diplacanthus sp. indet.

- Cockerell, T. D. A. 1913 A, 246.
 Ordovician, Colorado.

CLIMATIUS Agassiz. Type *C. reticulatus* Agassiz.

- Hay, O. P. 1902 A, 274.
 Abel, O. 1907 D, (161).
 1912 F, 207, 518, fig. 142
 1920 A, 333, fig. 528.
 1921 A, 249, fig. 91.
 Barkas, W. J. 1874 D, 549.
 Barrell, J. 1915 B, 394.
 Boker, H. 1927 A, 36.
 Bridge, T. W. 1904 A, 441.
 Bronn, H. G. 1848 A, 308
 1849 A, 653.
 Cope, E. D. 1891 N, 19
 Cunningham, J. T. 1912 A, 252.
 Dean, B. 1902 A, 768.
 1907 B, 209.
 1909 C, 244, fig. 39.
 Derjugin, K. 1910 B, 209
 Hay, O. P. 1901 B, 66.
 Goodrich, E. S. 1909 A, 192, fig. 164.
 Jordan, D. S. 1905 A, i, 516; ii, 563.
 1919 B, 225.
 1923 A, 91

- Kerr, J. G. 1900 A, 230.
 Knaer, J. 1924 A, 103, fig. 46.
 Oswald, F. 1911 A, 407, fig. 2
 Powrie, J. 1870 A, 287, 289, pls. xiii, xiv.
 Pompeckj, J. F. 1913 A, 1121.
 Traquair, R. H. 1900 C, 22
 Woodward, A. S. 1897 C, 379.
 1906 A, 271, fig. 4.
 Zittel and Koken 1911 A, 48
 Zittel and Schlosser 1923 A, 49, fig. 65
 Zittel and Woodward 1902 A, 22.

Climatius latispinosus (Whiteaves).

- Hay, O. P. 1902 A, 274 (*Climatius?*).
 Eastman, C. R. 1907 B, 13.
 1908 A, 276
 Lambe, L. M. 1904 C, 33, 41 (*Climatius?*)
 Smith, B. 1910 A, 663 (*Climatius?*).
 Whiteaves, J. F. 1907 B, 257 (*Climatius?*).
 Lower Devonian, New Brunswick.

Superorder ARISTOSELACHII Hay.

- Hay, O. P. 1902 A, 252, 795 (*Aristoselachii*);
 274 (*Euselachii*)
 Dean, B. 1902 C, 702 (*Selacha*).
 1909 C, 243 (*Euselachii*)
 Haeckel, E. 1868 A, 444 (*Plagiostomi*).

- Hussakof and Bryant 1919 A, 127 (*Euselachii*).
 Jordan, D. S. 1923 A, 97 (*Euselachii*)
 Parker and Haswell 1897 A, 156 (*Selachu*).
 Regan, C. T. 1906 A, 722, 739 (*Euselachii*).
 1912 A, 837 (*Euselachii*)

Order SELACHII Richardson.

- Richardson, J. 1836 A, 287.
 Hay, O. P. 1902 A, 274 (*Selacha*).
 Abel, O. 1912 F, 676 ("haufische").
 1920 A, 329 ("plagiostomen").
 Ahlborn, F. 1896 B, 1 ("haufische")
 Allis, E. P. 1909 A, 202.
 1913 A, 322 ("selachians").

- Allis, E. P. 1915 A.
 1917 A, 105.
 1919 C, 256.
 1922 B, 188.
 1923 B.
 1926 A, 166.
 1926 B, 339 (*Plagiostomi*).

- Anonymous 1898 A, 373 (Selachioidea).
 Arldt, T. 1907 D, 681.
 1923 A, 483 ("plagiostomen").
 Baehr, W. B. 1906 A, 629 ("selachier").
 Bardeleben, K. 1893 A, 168 ("selachier").
 Barrell, J. 1915 B, 402.
 Beer, G. R. 1924 B, 59 ("selachians").
 1924 C, 289 ("selachians").
 1926 A, 266.
 Beyer, H. 1907 A, 266 ("selachier").
 Bolk, L. 1914 A, 118 ("selachier").
 1915 A, 106.
 1922 B, 69.
 Bonaparte, C. L. 1838 C, 197 (Selacha).
 1839 A, 3 (Selacha).
 1840 A, 44 (Selacha).
 Braus, H. 1899 A, 520 ("haie").
 1906 B, 549 ("selachier").
 Bridge, T. W. 1878 A, 706.
 1904 A, 442 (Plagiostomi).
 Brohl, E. 1909 A, 345 ("selachier").
 Carter, J. T. 1905 A, 136.
 Carus, V. 1875 A, 598 (Plagiostomi).
 Collinge, W. E. 1893 C, 269 (Selachia).
 Cope, E. D. 1891 N, 15.
 Dana, J. C. 1863 C, 343 ("selachians").
 1906 B, 549 ("selachians").
 Dean, B. 1900 A, 22.
 1906 B, 152 ("sharks").
 1916 A ("fishes").
 Dollo, L. 1889 E, 152 ("requins").
 Dombrowski, B. A. 1925 A, 79 ("selachier").
 Dormitzer, M. 1852 A, 61 ("selachier").
 Drüner, L. 1904 A, 266 ("selachier").
 Eastman, C. R. 1907 B, 23, 64.
 1908 A, 69.
 Edgeworth, F. H. 1907 A, 530 ("selachians").
 1926 A, 173.
 Emer, G. H. T. 1901 A, 262 ("selachier").
 Eternod, A. C. F. 1900 A, 176 ("requins").
 Frassetto, F. 1915 A ("selaci").
 Furbinger, M. 1902 A (Selacha).
 Gaupp, E. 1905 D, 868 ("haie").
 1910 C.
 Gegenbaur, C. 1870 B, 448 ("selachier").
 Gill, T. 1905 A, 657.
 Goepfert, E. 1897 A, 244 ("selachier").
 Goette, A. 1901 A, 548 ("selachier").
 Goodrich, E. S. 1909 A, 135.
 1918 A, 12 ("selachians").
 Gregory, W. K. 1928 A, 3, fig 2 ("sharks").
 Haller, G. 1923 A, 95 ("selachier").
 1924 A, 305 ("selachier").
 1926 A, 449 ("selachier").
 Hase, A. 1913 A ("selachier").
 Hase and Schwarck 1870 A, 36 ("selachier").
 Haswell, W. A. 1884 A.
 Huxley, T. H. 1863 F, 426 ("sharks, rays").
 1876 E, 103 ("plagiostomes").
 1881 A, 453 ("sharks").
 Imms, A. D. 1905 A, 43 (Selachoides).
 Jaekel, O. 1901 A, 558 ("selachier").
 1911 A, 55.
 1926 A, 174 ("selachier").
 1926 B, 43 ("selachier").
 Jordan and Gilbert 1882 A, 12.
 Kehrer, F. A. 1896 A, 349 ("selachier").
 Kingsley, J. S. 1894 A, 638 ("sharks").
 Klaatsch, H. 1890 A, 98, 172, 214 ("selachier").
 1893 B, 654 ("selachier").
 1893 C, 175 ("selachier").
 Kryzanovsky, S. 1916 A, 235.
 Laaser, P. 1900 A, 479 ("selachier").
 1903 A, 551 ("selachier").
 Lakjer, T. 1927 A, 284 ("selachier").
 Lavocat, A. 1885 A, 32 ("plagiostomes").
 Lawley, R. 1875 B, 63 (Placoides).
 Leunis and Ludwig 1883 A, 782 (Plagiostomata).
 Leydig, F. 1873 B, 31 ("selachier").
 Lonnberg, E. 1901 A.
 1902 A.
 Lubosch, W. 1909 A, 1 ("selachier").
 Luther, A. 1909 A ("selachier").
 Matthes, E. 1921 A, 212 ("selachier").
 Meek, A. 1916 A, 38 (Plagiostomi).
 Molher, S. 1895 B, 10 ("selachier").
 Muller, E. 1909 A, 469 ("selachier").
 Muller and Henle 1838 A, 33 ("sharks").
 Mummery, J. H. 1917 A, 251 (Plagiostomi).
 Nauck, E. T. 1926 B, 73 ("selachier").
 Noordenbos, W. 1905 B, 389.
 Norman, E. W. 1926 A, 438, 458 (Euselachu).
 Parker, G. H. 1904 A, 496 ("fishes").
 Parker, W. K. 1881 C, 71 ("selachians").
 Parker and Haswell 1897 A, 156 (Euselachu).
 Pouchet and Chabry 1884 A, 186 ("sélaciens").
 Rabinerson, A. 1925 A, 434, 449 ("selachier").
 Radcliffe, L. 1917 A, 26 ("sharks").
 Reynolds, S. H. 1897 A, 31, 63, 108.
 Ridewood, W. G. 1921 A ("sharks and rays").
 Rose, C. 1892 G, 140 ("selachier").
 1897 A, 58 ("hafische").
 Sabatier, A. 1898 A, 928 ("sélaciens").
 1903 B, 1219 ("sélaciens").
 Schlosser, M. 1917 A, 142 ("selachier").
 Schmalhausen, J. J. 1916 C, 213.
 Schoenichen, W. 1900 A, 502 ("haie").
 Schuchert, C. 1914 B, 277 ("sharks").
 1915 A, 685.
 Securov, S. 1911 A, 1.
 Sewertzoff, A. N. 1926 A, 535 ("selachians").
 Sewertzoff and Disler 1924 A, 345 ("selachier").
 Shann, E. W. 1919 A, 532.
 Stannius, H. 1854 A (Plagiostomi).
 Steinmann, G. 1907 A, 400.
 Stephan, P. 1900 A, 233 ("sélaciens").
 Stromer, E. 1905 H, 216 ("haie").
 Ussow, S. 1900 A, 233 ("selachier").
 Van Wijhe, J. W. 1922 A, 291 ("selachier").
 Vert, O. 1916 A, 375 ("selachier").
 Wagner, R. 1843 A, 204 (Plagiostomi).
 Weidenreich, F. 1926 A, 45, 53 ("selachier").
 Weiler, W. 1922 A, 103.
 Wells, G. A. 1917 A, 417.
 White, J. W. 1905 A, 319 ("selachier").
 Woodward, A. S. 1923 C, 67.
 1924 B, 338.
 Ziegler, H. E. 1923 A, 62 ("selachier").
 Zittel and Koken 1911 A, 48.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 25 (Plagiostomi).

Suborder SQUALIFORMES Goodrich.

Goodrich, E. S. 1909 A, viii, 151.

Unless otherwise indicated the authors, as quoted, use for this suborder the name Squali.

Hay, O. P. 1902 A, 275.

Abel, O. 1919 A, 118 (Plagiostomi).

Agassiz, L. 1844 D, 142 ("squalides").

1844 E, 332 ("sharks").

1854 A, 4 ("sharks").

Allis, E. P. 1918 B, 263 (Selachu).

1925 A, 76 (Selachu).

Ameghino, F. 1906 A, 463 ("squares").

Backman, G. 1915 A.

Bessels, E. 1869 A, 153 ("haie").

Beyer, H. 1907 A, 266 ("squalier").

Boas, J. E. V. 1914 B, 538 ("haie").

Bonaparte, C. L. 1831 A, 121 (Squalidæ).

1833 B, 1203 (Squalidæ).

1838 C, 198, 206 (Squalidæ).

1839 A, 4, 8 (Squalidæ).

1840 A, 45 (Squalidæ).

Braus, H. 1904 A, 411 ("haie").

1906 B, 558 ("haie").

Bridge, T. W. 1904 A, 442 (Selachu).

Brohl, E. 1909 A, 348 ("haie").

Cunningham, J. T. 1912 A, 246 (Selachu).

Cuvier, G. 1803 A, 166 ("squares").

1805 A.

1815 A, 123 ("squares").

Dana, J. D. 1863 B, 317 ("sharks").

Davidoff, M. 1879 A ("haie").

Dean, B. 1900 A, 22 (Selachoides).

Deinse, A. B. 1916 A, 417 ("selachier").

Dohrn, A. 1884 A ("haie").

Dollo, L. 1889 F, 334.

1904 C, 47 ("sélaciens").

Duméril, A. 1856 A, 125.

Eimer, G. H. T. 1901 A, 61, 242 ("haie").

Fahrenholz, C. 1915 A, 394 ("haie").

Filatoff, D. 1907 A, 311 ("haie").

Fitzinger, L. J. 1873 A, 55 (Pleurochismata).

Forbes, H. O. 1879 A, 456 ("sharks").

Furbringer, K. 1904 B, 464 ("squaliden").

Furbringer, M. 1902 A ("haie").

1903 A, 361 (Selachu).

Garman, S. 1904 A, 246, 269 (Antacea).

1913 A, 10 (Antacea).

Gaupp, E. 1905 D, 834, 841 ("haie").

1910 C.

Gegenbaur, C. 1870 C, 405 ("haie").

1871 B ("haie").

Geoffroy, St. Hilaire 1807 C, 91 ("squares").

Gill, T. 1882 A, 967.

1885 A, lxiii.

Goetsch, W. 1920 A, 9 ("haie").

Greene, J. R. 1861 A, 227 (Squalidæ).

Haeckel, E. 1868 A, 443.

1873 A, 516, 585 (Squalacea).

Hatschek, B. 1893 A, 90 ("haie").

Huxley, T. H. 1869 G, 452.

Jaekel, O. 1913 A, 90 ("haie").

1913 C, 36 ("haie").

Jordan and Gilbert 1882 A, 12.

Kehrer, F. A. 1896 A, 347 ("haie").

Kingsley, J. S. 1885 A, 72.

Klaatsch, H. 1893 C, 181 (Squalidæ).

Kustlin, O. 1844 A ("haifische").

Latreille, P. A. 1825 A, 109 ("squalides").

Lavocat, A. 1885 A, 32 ("squares").

Leunis and Ludwig 1883 A, 782 (Selachoides).

Lonnberg, E. 1902 A (Squalidæ).

Lubosch, W. 1909 A, 4 ("haie").

1911 B, 743 ("haie").

Lutken, C. 1868 C.

M'Donald, R. 1864 A, 166 ("sharks").

Meckel, J. F. 1825 A ("haifische").

Mivart, St. G. 1871 B, 380 ("sharks").

Müller, E. 1909 A, 473 (Acanthias).

Muller, J. 1841 B, clm ("haie").

1845 A, 137 (Squalidæ).

Muller and Henle 1833 A, 34.

Norman, E. W. 1926 A, 452 (Pleurotremata).

Owen, R. 1839 G, 209 ("squares").

1846 E, 51 (Plagiostomi).

1848 B, 87 ("sharks").

1866 A, 13 (Selachu).

Parker and Haswell 1897 A, 156 (Squalida).

Pompeckj, J. F. 1913 A, 1124 (Selachoides).

Priem, F. 1908 B ("squares").

Probst, J. 1886 B, 301 ("haie").

Rabl, C. 1901 A, 476 ("squaliden").

Rafinesque, C. S. 1815 A, 93 (Antacea).

Rauther, M. 1913 A, 1097 (Selachoides).

Regan, C. T. 1906 A, 722 (Pleurotremata).

Ridewood, W. G. 1899 A, 46.

1921 A ("sharks").

Rosenberg, E. 1887 A, 31 ("se'achier").

Ryder, J. 1886 A, 71.

Sabatier, A. 1898 A, 930 ("squares").

1903 B, 1219 ("squares").

Schaumsland, H. 1906 A, 393 ("squaliden").

Schlosser, M. 1898 D, 119 ("haie").

Schmalhausen, J. J. 1916 C, 207 ("sharks").

Seeley, H. G. 1872 B, 34 ("sharks").

Sewertzoff, A. N. 1896 A, 273 ("haie").

1897 A, 411, figs 1-3 (Acanthias).

Shtkov, B. M. 1899 A, 256 ("haie").

Sloan, E. 1908 A, 335, 472 (Squalidæ).

Smith, H. M. 1916 A, 34 ("sharks").

Steinhard, O. 1903 A, 4 ("squaliden").

Steinmann, G. 1907 A, 400 (Squaloides).

1908 A, 205 ("haie").

Steenstrup, J. 1861 A, 368 ("requins").

Stephan, P. 1900 A, 310 ("squares").

Stromer, E. 1905 C, 164 (Squaloides).

1912 A, 19 (Squaloides).

Terra, P. 1911 A, 199 (Squalides).

Vent, O. 1916 A, 369 ("haie").

1924 A, 379 ("haifische").

Wagner, R. 1843 A ("haifische").

Waldheim, F. 1835 A, 234 ("requins").

Weber, E. 1821 A, 1060.

Wells, G. A. 1917 A, 417 (Acanthias).

Wilbrand, J. B. 1824 A, 933 ("haie").

Williamson, W. C. 1851 A, 669 ("sharks").

Woodward, A. S. 1898 B, 40 (Selachoides).

1921 B, 37 (Selachu).

1922 C, 68.

Superfamily PETALODONTOIDÆ new form.

Hay, O. P. 1902 A, 275
 Jordan, D. S. 1923 A, 92 (Janassides)

Woodward, A. S. 1921 B, 34 (Bradydonti)

PETALODONTIDÆ Newberry and Worthen.

Hay, O. P. 1902 A, 275.
 Abel, O. 1919 A, 135.
 Arldt, T. 1907 D, 672.
 1923 A, 487
 Bridge, T. W. 1904 A, 446
 Brongniart, C. 1888 C, 46 ("petalodontidés")
 Cope, E. D. 1891 N, 16
 Dean, B. 1906 B, 136 ("petalodontids").
 Dollo, L. 1889 F, 340.
 Eastman, C. R. 1903 B, 170.
 1917 A, 256.
 Fuchs, T. 1900 A, 7 ("petalodonten").
 Goodrich, E. S. 1909 A, 167.
 Gregory, W. K. 1907 D, 446
 Hav, O. P. 1901 B, 66-69.
 Jaekel, O. 1901 A, 557 ("petalodonten")

Jordan, D. S. 1905 A, i, 554; n, 585.
 1907 B, 211, 759
 1923 A, 93 (Janassides).
 Pompeckj, J. F. 1913 A, 1129.
 Sauvage, H. E. 1901 E, 70 ("petalodontides")
 Schlosser, M. 1917 A, 133, 134, 147 ("petalodontiden").
 Stromer, E. 1912 A, 22
 Trouessart, E. L. 1906 A, 213 ("petalodontes")
 Woodward, A. S. 1919 B, 330 ("petalodonts")
 1922 C, 66
 1924 A, 109.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 67 (Petalodontidæ)
 Zittel and Woodward 1902 A, 37.

JANASSA Münster. Type *Trilobites bituminosus* Schlotheim = *J. angulata* Münster.

Hay, O. P. 1902 A, 275
 Abel, O. 1919 A, 137 fig 101.
 Agassiz, L. 1844 C, 267
 Barkas, W. J. 1874 D, 548
 Bronn, H. G. 1848 A, 604 (Janassa).
 1849 A, 647 (Janassa).
 Case, E. C. 1908 C, 576 (Janassa, Strigilina).
 1915 A, 124
 1926 B, 196
 Dean, B. 1906 B, 136
 Eastman, C. R. 1900 F, 581
 1903 B, 170.
 1917 A, 256.
 Hay, O. P. 1901 B, 66, 69 (Janassa, Climaxodus).
 Hussakof, L. 1911 A, 156.
 Jaekel, O. 1909 D, 717 (Janassides).
 1911 A, 56, fig 52.
 Jordan, D. S. 1905 A, i, 554.
 1907 B, 211.
 1919 B, 176.
 1923 A, 93.
 Pompeckj, J. F. 1913 A, 1129, fig 33.
 Sauvage, H. E. 1901 E, 71.
 Schlosser, M. 1917 A, 134
 Woodward, A. S. 1919 B, 330
 1920 B, 1, 5
 1921 B, 34, fig 3
 1922 C, 67, fig. 64.
 1924 A, 110.
 Zittel and Koken 1911 A, 62, fig 109.
 Zittel and Schlosser 1923 A, 68, figs. 110, 111.
 Zittel and Woodward 1902 A, 38.

Janassa angularis Branson.

Branson, E. B. 1916 A, 647, pl. ii, figs. 5, 6.
 Pennsylvanian (Embar); Wyoming.

Janassa brevis (Newb.).

Hay, O. P. 1902 A, 276.
 Pennsylvanian (Coal-measures); Ohio.

Janassa gurleiana Cope.

Hay, O. P. 1902 A, 276
 Case, E. C. 1900 A, 700; pl. i, fig 2 (J gurleiana)
 1915 A, 96
 Cope and Matthew 1915 A, pl. iii, fig 12
 Hussakof, L. 1911 A, 156; pl. xxvi, fig 2 (J gurleyana).
 Pennsylvanian (Coal-measures); Illinois

Janassa maxima Eastman.

Eastman, C. R. 1903 B, 172; pl. ii, fig 21;
 pl. iii, fig. 24, text-fig. 5.
 Pennsylvanian (Atchison); Nebraska

Janassa ordiana Cope.

Hay, O. P. 1902 A, 276
 Beede, J. W. 1907 A, 120
 Permian; Texas

Janassa strigilina Cope.

Hay, O. P. 1902 A, 276.
 Case, E. C. 1900 A, 699; pl. i, fig 1.
 1915 A, 96.
 Cope and Matthew 1915 A, pl. iii, fig. 11.
 Hussakof, L. 1911 A, 156; pl. xxvi, fig. 1.
 Pennsylvanian (Upper); Illinois.

Janassa unguicula Eastman.

Eastman, C. R. 1903 B, 173; pl. ii, fig. 13; text-fig 6.
 Branson, E. B. 1916 A, 646; pl. ii, figs 7-18
 Woodruff, E. G. 1906 A, 290; pl. xviii, fig 8.
 Pennsylvanian; Nebraska, Illinois, Wyoming.

Janassa unguiformis (Newb. and Worth.).

Hay, O. P. 1902 A, 276 (Peltodus)
 Branson, E. B. 1916 A, 645; pl. ii, figs. 7, 7a
 Pennsylvanian; Illinois, Wyoming.

CLIMAXODUS M'Coy. Type *C. imbricatus* M'Coy.

M'Coy, F. 1848 A, 128.

Hay, O. P. 1902 A, 275 (*Janassa*, in part).

Barkas, W. J. 1869 A, 42.

Hay, O. P. 1901 B.

Jordan, D. S. 1919 B, 239

1923 A, 93.

Woodward, A. S. 1919 B, 379.

1920 B, 1, 5.

Woodward, A. S. 1921 B, 34.

1922 C, 67

1924 A, 109

Zittel and Schlosser 1923 A, 68.

This genus is recognized by A. S. Woodward (as cited) as being distinct from *Janassa*. Some of the American species referred to *Janassa* may belong to *Climaxodus*.

PELTODUS Newb. and Worth. Type *P. unguiformis* Newb. and Worth.

Hay, O. P. 1902 A, 276.

Barkas, W. J. 1874 D, 547.

Davis, J. W. 1884 A, 634.

Eastman, C. R. 1903 B, 174.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 359 (Syn. of *Janassa*).

1923 A, 93

Woodward, A. S. 1920 B, 4.

Peltodus? plicomphalus St. John and Worth.

Hay, O. P. 1902 A, 276

Mississippian (Chester); Illinois

Peltodus pulvinulus Newb. and Worth.

Hay, O. P. 1902 A, 276.

Mississippian; Illinois.

Peltodus quadratus St. John and Worth.

Hay, O. P. 1902 A, 276.

Mississippian (St. Louis); Illinois, Missouri.

Peltodus transversus St. John and Worth.

Hay, O. P. 1902 A, 276.

Pennsylvanian; Illinois.

TANAODUS St. John and Worth. Type *T. bellicinctus* St. John and Worth.

Hay, O. P. 1902 A, 276.

Eastman, C. R. 1903 B, 174

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 380.

1923 A, 93.

Woodward, A. S. 1920 B, 4.

Tanaodus angularis (Newb. and Worth.).

Hay, O. P. 1902 A, 276.

Meek, F. B. 1869 A, 3 (*Deltodus angulatus* This species?).

Pennsylvanian; Illinois.

Tanaodus bellicinctus St. John and Worth.

Hay, O. P. 1902 A, 276

Mississippian (Chester); Illinois.

Tanaodus depressus St. John and Worth.

Hay, O. P. 1902 A, 276.

Mississippian (Chester); Illinois.

Tanaodus gracillimus (Newb. and Worth.).

Hay, O. P. 1902 A, 276.

Mississippian (Burlington); Iowa

Tanaodus grossiplicatus St. John and Worth.

Hay, O. P. 1902 A, 276.

Mississippian (Chester); Illinois.

Tanaodus multiplicatus (Newb. and Worth.).

Hay, O. P. 1902 A, 277.

Brongniart, C. 1888 C, 47 (*Tanoodus*).

Mississippian (Burlington); Iowa

Tanaodus obscurus (Leidy).

Hay, O. P. 1902 A, 277.

Mississippian (Keokuk); Illinois.

Tanaodus polymorphus St. John and Worth.

Hay, O. P. 1902 A, 277.

Mississippian (Chester); Illinois.

Tanaodus prænuntius St. John and Worth.

Hay, O. P. 1902 A, 277.

Mississippian (St. Louis); Illinois, Iowa, Missouri.

Tanaodus pumilis St. John and Worth.

Hay, O. P. 1902 A, 277.

Mississippian (St. Louis); Illinois, Iowa.

Tanaodus sculptus St. John and Worth.

Hay, O. P. 1902 A, 277.

Mississippian (St. Louis), Iowa, Illinois, Missouri.

Tanaodus sublunatus St. John and Worth.

Hay, O. P. 1902 A, 277

Mississippian (St. Louis); Illinois.

CYMATODUS Newb. and Worth. Type *C. oblongus*, Newb. and Worth.

Hay, O. P. 1902 A, 277.

Barkas, W. J. 1874 D, 546.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 359 (Syn. ? of *Janassa*).

1923 A, 93

Cymatodus oblongus Newb. and Worth.

Hay, O. P. 1902 A, 277.

Pennsylvanian, Illinois.

THORACODUS Cope. Type *T. emydinus* Cope.

- Hay, O. P. 1902 A, 277.
 Hay, O. P. 1901 B, 66, 69.
 Jordan, D. S. 1923 A, 93.

Thoracodus emydinus Cope.

- Hay, O. P. 1902 A, 277.
 Case, E. C. 1900 A, 702.
 Permian; Illinois.

FISSODUS St. John and Worth. Type *F. bifidus* St. John and Worth.

- Hay, O. P. 1902 A, 277 (Fissodus, Chelodus).
 Branson, E. B. 1916 A, 647.
 Eastman, C. R. 1903 B, 174.
 Etheridge, R. 1877 A, 306; pl. xui, figs. 2, 3
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1919 B, 320.
 1923 A, 93.
 Zittel and Koken 1911 A, 62.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 39.

Fissodus bifidus St. John and Worth.

- Hay, O. P. 1902 A, 277.
 Mississippian (Chester); Illinois.

Fissodus dentatus Eastman.

- Eastman, C. R. 1903 B, 175; pl. ii, fig. 12.
 Pennsylvanian (Missourian); Kansas.

Fissodus inaequalis (St. John and Worth.).

- Hay, O. P. 1902 A, 277 (Chelodus).
 Branson, E. B. 1916 A, 647.
 Eastman, C. R. 1903 B, 174; pl. ii, fig. 11, pl. iii, fig. 26.
 Woodruff, E. G. 1906 A, 290; pl. xviii, fig. 6.
 Pennsylvanian (Missourian); Nebraska, Kansas, Iowa, Illinois, Missouri, Wyoming.

Fissodus tricuspidatus St. John and Worth.

- Hay, O. P. 1902 A, 277.
 Mississippian (Chester); Illinois.

PETALORHYNCHUS Agassiz. Type *Petalodus psittacinus* M'Coy.

- Agassiz, L. 1862, in Morris and Roberts, Quart Jour. Geol., xviii, 101
 Hay, O. P. 1902 A, 278.
 Arlitt, T. 1923 A, 487
 Barkas, W. J. 1874 D, 547.
 Eastman, C. R. 1903 B, 171.
 Etheridge, R. 1875 A, 242; pl. viii, figs. 3, 4
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1923 A, 93.
 Woodward, A. S. 1924 A, 109.
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 38.

Petalorhynchus distortus St. John and Worth.

- Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.

Petalorhynchus pseudosagittatus St. John and Worth.

- Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Missouri, Iowa.

Petalorhynchus spatulatus St. John and Worth.

- Hay, O. P. 1902 A, 278.
 Mississippian (St. Louis); Illinois, Iowa.

Petalorhynchus striatus Newb. and Worth.

- Hay, O. P. 1902 A, 278.
 Mississippian (Burlington); Illinois.

PETALODUS Owen. Type *P. hastingiae* Agassiz.

- Owen, R. 1845 B (1840), 61.
 Hay, O. P. 1902 A, 278.
 Agassiz, L. 1844 C, 267.
 1844 D, 142.
 Arlitt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 949.
 1849 A, 646.
 Eastman, C. R. 1903 B, 171, 175.
 1917 A, 257.
 Etheridge, R. 1875 A, 244, pl. viii, figs. 5, 6.
 Hay, O. P. 1901 B, 66.
 Hayden, F. V. 1872 A, 132.
 Heilmann, A. 1887 A, 300.
 Jaekel, O. 1900 A, 146.
 Jordan, D. S. 1905 A, i, 554.
 1907 B, 211.

- Jordan, D. S. 1919 B, 207.
 1923 A, 93 (Syn. ? of Ctenopterychus).
 M'Coy, F. 1849 A, 141.
 Owen, R. 1845 B, 61, 62, pl. xxii, figs. 3-5.
 1849 D, 42.
 1866 A, 371.
 Sauvage, H. E. 1901 E, 71.
 Woodward, A. S. 1924 A, 109
 Zittel and Koken 1911 A, 61.
 Zittel and Schlosser 1923 A, 67.
 Zittel and Woodward 1902 A, 38.

Petalodus arcuatus St. John.

- Hay, O. P. 1902 A, 280 (Chomatodus).
 Eastman, C. R. 1903 B, 177.
 Hayden, F. V. 1872 A, 127.

Meek, F. B. 1869 A, 3 (*Chomatodus*; name only).

1872 A, 100, 102, 127 (*Chomatodus*).

St. John and Worthen 1875 A, pl x, figs. 23a-23d (*Chomatodus*)

Pennsylvanian, Iowa. (Missourian), Nebraska.

***Petalodus curtus* Newb. and Worth.**

Hay, O P 1902 A, 278.

Mississippian (Keokuk); Illinois, Iowa.

***Petalodus hybridus* St. John and Worth.**

Hay, O P 1902 A, 278

Mississippian (St. Louis); Illinois.

***Petalodus knappi* Newb.**

Hay, O. P 1902 A, 278

Mississippian (Keokuk); Indiana

***Petalodus linguifer* Newb. and Worth.**

Hay, O. P. 1902 A, 278

Branson, E B 1906 A, 1379, pl. xli, figs 13-15
Mississippian (Chester), Illinois, Missouri (Salem); Indiana

***Petalodus ohioensis* Safford.**

Hay, O. P 1902 A, 278.

Eastman, C R 1903 B, 176; pl ii, figs. 17, 18; pl ii, fig 27 (*P. alleghaniensis*).

Hayden, F V. 1872 A, 127 (*P. destructor*).

Hussakof and Bryant 1919 A, 149.

Mason, S C. 1883 A, 13 (*P. alleghaniensis*).

Meek, F B 1869 A, 3 (*P. destructor*).

1872 A, 96, 127 (*P. destructor*).

Newberry, J. S. 1861 A, 38 (*P. alleghaniensis*)

1874 G, 156 (*P. alleghaniensis*).

Woodruff, E G 1906 A, 288, pl xvii, fig. 4 (*P. alleghaniensis*)

Worthen, A H 1866 A, 61 (*P. destructor*).

Zittel and Koken 1911 A, 61, fig. 105 (*P. destructor*)

Zittel and Schlosser 1923 A, 67, fig. 109 (*P. destructor*)

Zittel and Woodward 1902 A, 38, fig. 75 (*P. alleghaniensis*)

Pennsylvanian; Ohio, Illinois, Iowa, Nebraska, Arkansas, Pennsylvania; Permian-Carboniferous, Nebraska.

***Petalodus proximus* St. John and Worth.**

Hay O P. 1902 A, 279

Pennsylvanian, Illinois

***Petalodus* sp. indet.**

Stevenson, J. J 1907 A, 168

Pennsylvanian (Ames); West Virginia.

ANTIODUS Newb. and Worth. Type *A. mucronatus* Newb. and Worth.

Hay, O. P 1902 A, 279.

Barkas, W J 1874 D, 544.

Hay, O. P 1901 B, 66.

Hayden, F V. 1872 A, 132

Jordan, D. S. 1919 B, 342 (*Syn. of Petalodus*).

(Type said to be *A. parvulus*)

1923 A, 93

***Antiodus arcuatus* Newb.**

Hay, O. P 1902 A, 279.

Branson, E B. 1906 A, 1394.

Hussakof, L. 1908 A, 28

Mississippian (Salem); Indiana

***Antiodus cucullus* Newb. and Worth.**

Hay, O. P 1902 A, 279

Mississippian (Keokuk); Illinois.

***Antiodus gracilis* St. John and Worth.**

Hay, O. P. 1902 A, 279

Mississippian (Warsaw); Illinois.

***Antiodus minutus* Newb. and Worth.**

Hay, O. P 1902 A, 279.

Branson, E B 1906 A, 1394.

Brongniart, C 1888 C, 47.

Mississippian (Salem); Indiana.

***Antiodus mucronatus* Newb. and Worth.**

Hay, O P. 1902 A, 279.

Mississippian (St. Louis), Illinois.

***Antiodus parvulus* Newb. and Worth.**

Hay, O. P 1902 A, 279

Mississippian (Burlington); Illinois

***Antiodus perovalis* St. John and Worth.**

Hay, O P 1902 A, 279

Mississippian (Warsaw), Illinois.

***Antiodus politus* Newb. and Worth.**

Hay, O P 1902 A, 279

Mississippian (Keokuk); Illinois.

***Antiodus robustus* Newb. and Worth.**

Hay, O P. 1902 A, 279

Mississippian (Chester); Illinois

***Antiodus sarcinulus* Newb. and Worth.**

Hay, O P. 1902 A, 279

Newberry and Worthen 1870 A, pl ii, figs. 8-8b.

Mississippian (Burlington); Iowa

***Antiodus similis* Newb. and Worth.**

Hay, O P 1902 A, 279

Mississippian (Keokuk); Illinois, Indiana.

***Antiodus simplex* Newb. and Worth.**

Hay, O. P. 1902 A, 279

Mississippian (Burlington); Iowa.

***Antiodus sulcatus* Newb. and Worth.**

Hay, O. P. 1902 A, 279

Mississippian (Keokuk); Illinois

CHOMATODUS Agassiz. Type *C. cinctus* Agassiz.

Hay, O. P. 1902 A, 279.

Agassiz, L. 1844 C, 267.

Barkas, W. J. 1874 D, 545.

Brongniart, C. 1888 C, 46 (*Chomatodus*).

Coulon, L. 1903 A, 130.

Eastman, C R 1903 B, 203.

Eastman, C. R. 1909 A, 488.
1917 A, 257.

Giebel, C. G. 1855 A, 115.

Hay, O. P. 1901 B, 66

Hayden, F. V. 1872 A, 132.

Healprin, A. 1887 A, 300.

Jordan, D. S. 1919 B, 190.
1923 A, 94.

Savage, T. E. 1902 A, 257.

Woodward, A. S. 1920 B, 4

Chomatodus affinis Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus angustus Newb.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394

Mississippian (Salem); Indiana.

Chomatodus comptus St. John and Worth.

Hay, O. P. 1902 A, 280

Eastman, C. R. 1903 B, 203

Mississippian (Burlington); Iowa.

Chomatodus costatus Newb. and Worth.

Hay, O. P. 1902 A, 280

Mississippian (Keokuk); Illinois.

Chomatodus cultellus Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Chester); Illinois.

Chomatodus elegans Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Iowa.

Chomatodus inconstans St. John and Worth.

Hay, O. P. 1902 A, 280 (C. chesterensis, C. inconstans, C. varsouvienus).

Branson, E. B. 1906 A, 1380, pl. xli, figs. 29-31

Eastman, C. R. 1903 B, 204, pl. iv, figs. 32-34 (C. chesterensis, C. varsouvienus are syns.).

Mississippian (St. Louis, Keokuk, Chester); Iowa, Illinois (Salem); Indiana, Missouri.

LISGODUS St. John and Worth. Type *L. curtus* St. John and Worth.

Hay, O. P. 1902 A, 281.

1901 B, 66.

Jordan, D. S. 1919 B, 380 (Syn. ? of *Petalodus*).
1923 A, 93.

Lisgodus affinis Newb.

Hay, O. P. 1902 A, 281.

Branson, E. B. 1906 A, 1394.

Mississippian (St. Louis); Illinois, Missouri: (Salem); Indiana.

Lisgodus curtus St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (Burlington); Iowa, Illinois (Keokuk); Illinois, Missouri.

CALOPODUS St. John and Worth. Type *C. apicalis* St. John and Worth.

Hay, O. P. 1902 A, 281.

Jordan, D. S. 1901 B, 66.

Jordan, D. S. 1923 A, 93.

Chomatodus incrassatus St. John and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (St. Louis); Illinois, Iowa, Missouri.

Chomatodus insignis (Leidy).

Hay, O. P. 1902 A, 280.

Mississippian (St. Louis); Missouri, Illinois

Chomatodus lanesvillensis Branson.

Branson, E. B. 1906 A, 1381, pl. xli, figs. 15-18

Mississippian (Salem); Indiana.

Chomatodus loriformis Newb. and Worth.

Hay, O. P. 1902 A, 280.

Mississippian (Keokuk); Illinois.

Chomatodus molaris Newb. and Worth.

Hay, O. P. 1902 A, 280

Mississippian (Keokuk); Illinois.

Chomatodus newberryi Hay.

Hay, O. P. 1902 A, 280

Branson, E. B. 1906 A, 1394 (C. obliquus).

Mississippian (Salem); Indiana.

Chomatodus parallelus St. John and Worth.

Hay, O. P. 1902 A, 280

Branson, E. B. 1906 A, 1379.

Mississippian (Warsaw); Illinois, Missouri: (Salem), Indiana.

Chomatodus pusillus Newb. and Worth.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394.

Mississippian (Keokuk); Illinois: (Salem); Indiana.

Chomatodus selliformis Newb.

Hay, O. P. 1902 A, 280.

Branson, E. B. 1906 A, 1394.

Mississippian (St. Louis); Illinois: (Salem); Indiana.

Lisgodus selluliformis St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (St. Louis); Illinois, Missouri

Lisgodus serratus St. John and Worth.

Hay, O. P. 1902 A, 281.

Mississippian (Burlington); Iowa, Illinois.

Calopodus apicalis St. John and Worth.

Hay, O. P. 1902 A, 281.

Pennsylvanian; Iowa.

CTENOPTYCHIUS Agassiz.**Type *C. apicalis* Agassiz.**

- Hay, O. P. 1902 A, 281 (*Ctenoptychius*, *Ctenopetalus*); 282 (*Harpacodus*).
 Agassiz, L. 1844 C, 267, 268.
 1862, in Morris and Roberts, Quart. Jour. Geol., xvi, 100 (*Ctenopetalus*).
 Ardit, T. 1923 A, 487 (*Ctenoptychius*, *Ctenopetalus*, *Harpacodus*).
 Barkas, T. P. 1869 B, 43, figs. 1, 2.
 1874 D, 545 (*Ctenoptychius*, *Ctenopetalus*); 546 (*Harpacodus*).
 Bronn, H. G. 1848 A, 356.
 1849 A, 646.
 Eastman, C. R. 1903 B, 171, 176.
 1917 A, 257.
 Etheridge, R. 1875 A, 244.
 Gebel, C. G. 1855 A, 115, pl. xlviii.
 Hay, O. P. 1901 B, 66.
 Jordan, D. S. 1907 B, 212.
 1919 B, 320 (*Ctenopetalus*; syn. of *Ctenoptychius*).
 1923 A, 93.
 Woodward, A. S. 1924 A, 109.
 Zittel and Koken 1911 A, 63.
 Zittel and Schlosser 1923 A, 69.
 Zittel and Woodward 1902 A, 39.

***Ctenoptychius acuminatus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 282.
 Mississippian (Kinderhook), Iowa.

***Ctenoptychius bellulus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 281 (*Ctenopetalus*).
 Mississippian (St. Louis); Iowa, Illinois.

***Ctenoptychius compactus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 282 (*Harpacodus compactus*, *H. occidentalis*).
 Eastman, C. R. 1903 B, 178 (*H. occidentalis* a syn.).
 Mississippian (Chester); Illinois.

***Ctenoptychius cristatus* Dawson.**

- Hay, O. P. 1902 A, 282.
 Bell, W. A. 1913 A, 340, 343.
 Lambe, L. M. 1904 C, 19, 35, 41.
 Whiteaves, J. F. 1903 B, 29 (This species?).
 Carboniferous; Nova Scotia.

***Ctenoptychius limatulus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 281 (*Ctenopetalus*).
 Mississippian (Chester); Illinois.

***Ctenoptychius medius* (St. John and Worth.).**

- Hay, O. P. 1902 A, 281 (*Ctenopetalus*).
 Mississippian (Chester); Illinois.

***Ctenoptychius occidentalis* (St. John and Worth.).**

- Hay, O. P. 1902 A, 281 (*Ctenopetalus*).
 Eastman, C. R. 1903 B, 178, pl. n, fig. 10.
 Pennsylvanian; Iowa: (Missourian); Nebraska.

***Ctenoptychius pertenuis* St. John and Worth.**

- Hay, O. P. 1902 A, 282.
 Mississippian (Chester); Illinois.

***Ctenoptychius stevensoni* St. John and Worth.**

- Hay, O. P. 1902 A, 282.
 Newberry, J. S. 1874 G, 156 (*Peripristis* n. sp.).
 Pennsylvanian; West Virginia.

***Ctenoptychius vinosus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 281 (*Ctenopetalus*).
 Mississippian (Keokuk); Iowa.

POLYRHIZODUS M'Coy.**Type *P. magnus* M'Coy.**

- Hay, O. P. 1902 A, 282.
 Ardit, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 546, 548 (*Dactylodus*, *Polyrhizodus*).
 Cushing, H. P. 1912 A, 581.
 Eastman, C. R. 1917 A, 257.
 Goodrich, E. S. 1909 A, 167, fig. 133.
 Hay, O. P. 1901 B, 66.
 Hoernes, R. 1886 A, 543.
 Jaekel, O. 1911 A, 57, fig. 53.
 Jordan, D. S. 1907 B, 212.
 1919 B, 239.
 1923 A, 93.
 Pompeckj, J. F. 1913 A, 1129.
 Sauvage, H. E. 1901 E, 71.
 Zittel and Koken 1911 A, 62.
 Zittel and Schlosser 1923 A, 68.
 Zittel and Woodward 1902 A, 39.

***Polyrhizodus amplius* St. John and Worth.**

- Hay, O. P. 1902 A, 282.
 Mississippian (St. Louis); Illinois, Missouri.

***Polyrhizodus carbonarius* St. John and Worth.**

- Hay, O. P. 1902 A, 282.
 Pennsylvanian; Illinois.

***Polyrhizodus concavus* (St. John and Worth.).**

- Hay, O. P. 1902 A, 282.
 Eastman, C. R. 1917 A, 257, pl. viii, fig. 4.
 Mississippian (St. Louis); Illinois.

Polyrhizodus dentatus Newb. and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.

Polyrhizodus digitatus (Leidy).

Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Missouri, Illinois.

Polyrhizodus excavatus (St. John and Worth.).

St. John and Worthen 1875 A, 392, pl. xiii, fig. 16 (Dactylodus).

Mississippian (Chester); Illinois.

Polyrhizodus grandis Eastman.

Eastman, C. R. 1917 A, 257, pl. vii, figs. 1, 2
Mississippian (St. Louis); Illinois.

Polyrhizodus inflexus (Newb. and Worth.).

Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.

Polyrhizodus latus (Newb.).

Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Illinois.

Polyrhizodus littoni Newb. and Worth.

Hay, O. P. 1902 A, 283.
Branson, E. B. 1906 A, 1394
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Missouri, Indiana.

Polyrhizodus minimus (St. John and Worth.).

Hay, O. P. 1902 A, 283.
Mississippian (St. Louis); Illinois.

Polyrhizodus modestus Newb.

Hay, O. P. 1902 A, 283.
Claypole, E. W. 1903 A, 319, 321.
Eastman, C. R. 1907 B, 18.
Newberry, J. S. 1874 G, 94, 98.
Upper Devonian or Lower Mississippian;
Ohio.

Polyrhizodus nanus St. John and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Keokuk); Iowa.

Polyrhizodus piassaënsis St. John and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Warsaw); Illinois.

Polyrhizodus ponticulus Newb. and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Chester); Illinois.

Polyrhizodus porosus Newb. and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Burlington); Iowa, Illinois.

Polyrhizodus princeps (Newb. and Worth.).

Hay, O. P. 1902 A, 283.
Eastman, C. R. 1917 A, 257
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Missouri, Illinois.

Polyrhizodus rectus (Newb.).

Hay, O. P. 1902 A, 283.
Hussakof, L. 1908 A, 34.
Mississippian (St. Louis); Illinois.

Polyrhizodus truncatus Newb. and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Burlington); Illinois.

Polyrhizodus williamsi St. John and Worth.

Hay, O. P. 1902 A, 283.
Mississippian (Keokuk); Missouri, Iowa.

PERIPRISTIDÆ Eastman.

Eastman, C. R. 1902 A, 389.
Jordan, D. S. 1923 A, 94.

Zittel and Koken 1911 A, 63.

PERIPRISTIS St. John. Type *Ctenoptychius semicircularis* Newb. and Worth.

Hay, O. P. 1902 A, 281 (*Ctenoptychius*, in part)
Barkas, W. J. 1874 D, 547.
Eastman, C. R. 1902 A, 388, 389.
1903 B, 176, 178.
Jordan, D. S. 1919 B, 359 (Syn. of *Ctenoptychius*).
1923 A, 94 (Not syn. of *Ctenoptychius*).
Zittel and Woodward 1902 A, 39.

Peripristis semicircularis (Newb. and Worth.).

Hay, O. P. 1902 A, 282 (*Ctenoptychius*).
Eastman, C. R. 1902 A, 389, fig. 1.

Eastman, C. R. 1903 B, 178, pl. ii, figs. 5-7;
pl. iii, fig. 25, text-figs. 7, 8.
Etheridge, R. 1875 A, 244 (*Ctenoptychius*).
Hayden, F. V. 1872 A, 127.
Martin, H. T. 1913 A, 185 (*Ctenoptychius*).
Meek, F. B. 1889 A, 3.
1872 A, 86, 89, 96, 100, 102, 127.
Merrill, G. P. 1907 A, 15.
Smith, G. L. 1915 A, 282.
Stevenson, J. J. 1878 A, 240 (*Ctenoptychius*).
Woodruff, E. G. 1906 A, 290, pl. lxviii, fig. 7.
Missourian (Atchison); Nebraska; Pennsylvanian; Ohio, Indiana; Mississippian (Chester); Kentucky; Permian; Kansas; Iowa.

PSAMMODONTIDÆ Koninck

Hay, O. P. 1902 A, 284
 Abel, O. 1919 A, 135
 Arlitt, T. 1907 D, 677.
 Bridge, T. W. 1904 A, 446.
 Cope, E. D. 1891 N, 17.
 Dollo, L. 1889 F, 341
 Goodrich, E. S. 1909 A, 167.
 Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 66
 Hoernes, R. 1896 A, 543 (Psammodontes).
 Jordan, D. S. 1905 A, 1, 558

Jordan, D. S. 1907 B, 215, 758, 759.
 1923 A, 93.
 Pompecky, J. F. 1913 A, 1128
 Schlosser, M. 1917 A, 133 ("psammodontiden").
 Trouessart, E. L. 1906 A, 213 ("psammodontes")
 Woodward, A. S. 1919 B, 389
 1921 B, 34
 Zittel and Koken 1911 A, 61
 Zittel and Schlosser 1923 A, 66
 Zittel and Woodward 1902 A, 37.

PSAMMODUS Agassiz. Type *P. rugosus* Agassiz.

Hay, O. P. 1902 A, 284
 Arlitt, T. 1923 A, 487
 Baikas, W. J. 1874 D, 548.
 Boklen, H. 1887 A, 76.
 Briquel, P. 1898 A, 16
 Bronn, H. G. 1848 B, 1048.
 1849 A, 647
 Dean, B. 1909 C, 249
 Eastman, C. R. 1903 B, 170
 1917 A, 258.
 Egerton, P. G. 1853 C, 282.
 Etheridge, R. 1877 A, 308, pl. xiii, figs 7-9.
 Giebel, C. G. 1855 A, 115.
 Hay, O. P. 1901 B, 66
 Heilmann, A. 1887 A, 300.
 Hoernes, R. 1886 A, 543
 Jaekel, O. 1911 A, 54, fig. 44.
 Jordan, D. S. 1905 A, 1, 558; 2, 588.
 1907 B, 215, 216.
 1923 A, 93

Mantell, G. A. 1844 A, 617
 Stephan, P. 1900 A, 409
 Woodward, A. S. 1921 B, 34.
 1924 A, 110

Zittel and Koken 1911 A, 61.
 Zittel and Woodward 1902 A, 37.

Psammodus angularis Newb. and Worth.

Hay, O. P. 1902 A, 284
 Brongniart, C. 1888 C, 47 (P. porosus).
 Hussakof and Bryant 1919 A, 149
 Mississippi (Chester); Illinois.

Psammodus antiquus Newb.

Hay, O. P. 1902 A, 284.
 Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1908 A, 276 (This genus?).
 1907 B, 13 (This genus?).
 Stauffer, C. R. 1909 A, 170.
 Middle Devonian (Columbus); Ohio.

Psammodus cælatus St. John and Worth.

Hay, O. P. 1902 A, 284
 Mississippi (St. Louis); Iowa, Missouri.

Psammodus crassidens St. John and Worth.

Hay, O. P. 1902 A, 284.
 Mississippi (St. Louis); Illinois, Iowa.

Psammodus glyptus St. John and Worth.

Hay, O. P. 1902 A, 284.

Briançon, E. B. 1906 A, 1394.
 Eastman, C. R. 1917 A, 258
 Hussakof, L. 1908 A, 34 (This species?)
 Van Tuyl, F. M. 1925 A, 141.
 Mississippi (Burlington); Illinois: (St. Louis), Indiana.

Psammodus grandis St. John and Worth.

Hay, O. P. 1902 A, 284.
 Mississippi (Keokuk); Iowa.

Psammodus loviannus St. John and Worth.

Hay, O. P. 1902 A, 284
 Mississippi (Burlington); Iowa, Illinois

Psammodus plenus St. John and Worth.

Hay, O. P. 1902 A, 284.
 Eastman, C. R. 1917 A, 258, pl. vii, fig. 8.
 Newberry, J. S. 1889 A, 210, pl. xix figs 7, 8.
 (P. glyptus errore)
 Mississippi (St. Louis); Missouri, Illinois, Michigan

Psammodus reticulatus Newb. and Worth.

Hay, O. P. 1902 A, 284
 Mississippi (Chester); Illinois

Psammodus springeri St. John and Worth.

Hay, O. P. 1902 A, 285
 Eastman, C. R. 1917 A, 258
 Mississippi (Burlington); Iowa, Illinois.

Psammodus tumidus St. John and Worth.

Hay, O. P. 1902 A, 285
 Mississippi (Burlington); Iowa, Illinois.

Psammodus turgidus St. John and Worth.

Hay, O. P. 1902 A, 285
 Mississippi (Burlington-Keokuk division beds); Iowa.

Psammodus sp. indet.

Hay, O. P. 1902 A, 285
 Bell, W. A. 1913 A, 343 (Rhizodus).
 Pennsylvanian (Joggins); Nova Scotia.
 Lambe, L. M. 1904 C, 41.
 Pennsylvanian (Joggins); Nova Scotia.

Mazodus Newb. Type *M. kepleri* Newb.

- Hay, O. P. 1902 A, 285.
 Eastman, C. R. 1903 B, 219.
 Moodie, R. L. 1920 C, 48, pl. 1, fig. C.
 1926 A, 67.
 Rogers, A. F. 1924 A, 554, pl. xxvii, fig. 2.

***Mazodus kepleri* Newb.**

- Hay, O. P. 1902 A, 285.
 Hussakof, L. 1908 A, 31
 Moodie, R. L. 1926 A, 79, 81, 93, pl. ix.
 Mississippian (Waverly); Ohio.

Archæobatis Newb. Type *A. gigas* Newb.

- Hay, O. P. 1902 A, 285.
 Dean, B. 1909 C, 258, pl. xxxv.
 Eastman, C. R. 1903 B, 170
 Hay, O. P. 1901 B, 66.
 Zittel and Koken 1911 A, 61
 Zittel and Woodward 1902 A, 37

***Archæobatis gigas* Newb.**

- Hay, O. P. 1902 A, 285.
 Branson, E. B. 1906 A, 1394
 Dean, B. 1909 C, 258
 Eastman, C. R. 1917 A, 258 (To *Psammodus*?).
 Hussakof, L. 1908 A, 29
 Jordan, D. S. 1905 A, 1, 559.
 1907 B, 216
 Pompeckj, J. F. 1913 A, 1123.
 Mississippian (St. Louis); Indiana

COPODONTIDÆ Woodward.

- Woodward, A. S. 1921 B, 35.

Copodus Agassiz. Type *Psammodus cornutus* Agassiz.

- Agassiz, L. 1862, in Morris and Roberts.
 Quart. Jour. Geol. Soc., xviii, 100.
 Hay, O. P. 1902 A, 285.
 Arldt, T. 1923 A, 487.
 Barkas, W. J. 1874 D, 545
 Eastman, C. R. 1903 B, 170
 Jordan, D. S. 1907 B, 216.
 1919 B, 320.
 1923 A, 93
 Woodward, A. S. 1921 B, 34
 1924 A, 110.
 Zittel and Woodward 1902 A, 37.

***Copodus marginatus* (Newb.).**

- Hay, O. P. 1902 A, 285
 Branson, E. B. 1906 A, 1394.
 Hussakof, L. 1908 A, 29
 Mississippian (St. Louis); Indiana.

***Copodus pusillus* St. John and Worth.**

- Hay, O. P. 1902 A, 285
 Mississippian (Chester); Illinois.

***Copodus vanhornii* St. John and Worth.**

- Hay, O. P. 1902 A, 285
 Mississippian (St. Louis); Missouri, Illinois

ACMONIODUS Hussakof and Bryant. Type *A. clarkei* Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 151.
 Woodward, A. S. 1921 B, 36

***Acmoniodus clarkei* Hussakof and Bryant.**

- Hussakof and Bryant 1919 A, 13, 151, 308, pl. iv, fig. 3; text-fig. 53
 Upper Devonian (Lower Genesee); New York

Superfamily HYBODONTOIDÆ, new form.

- Hay, O. P. 1902 A, 285 (Heterodontoidæ).
 Agassiz, L. 1844 D, 142 ("cestracions").
 Bronn, H. G. 1849 A, 830, seq. (Cestracions).
 Cope, E. D. 1891 N, 17 (Cestraciontoidæ).
 Duméril, A. 1856 A, 132 ("cestracions").
 Eastman, C. R. 1902 F, 267 ("cestracions").
 Fitzinger, L. J. 1873 A, 55 (Cestracions).
 Gill, T. 1882 A, 967 (Proarthri or Acrodonta).
 1885 A, lxiv (Proarthri).
 Goodrich, E. S. 1909 A, 145 (Heterodonti).

- Gregory, W. K. 1907 A, 446 (Prosarthri).
 Jaekel, O. 1911 A, 57 (Cestracionti)
 Jordan, D. S. 1905 A, 1, 526; 11, 562 (Cestracions)
 1907 B, 187, 758 (Cestracions)
 Krivetski, A. 1917 A, 19 (Cestracion).
 Pompeckj, J. F. 1913 A, 1124 (Heterodonti).
 Regan, C. T. 1906 A, 723, 746 (Squaloidæ).
 Ridewood, W. G. 1921 A, 313 (Squaloidæ).

COCHLIODONTIDÆ Owen.

- Hay, O. P. 1902 A, 286.
 Abel, O. 1919 A, 133.
 Arldt, T. 1907 D, 646
 1923 A, 487 ("cochliodontiden").
 Bridge, T. W. 1904 A, 445, 736.
 Cope, E. D. 1891 N, 17.

- Dean, B. 1906 B, 136 ("cochliodonts").
 Dollo, L. 1889 F, 341.
 1906 B, 135 ("cochliodontes").
 1907 B, 101 ("cochliodontes").
 Eastman, C. R. 1903 D, 285 ("cochliodonts").
 Goodrich, E. S. 1909 A, 146.

- Gregory, W. K. 1907 D, 446.
 Hay, O. P. 1901 B, 66, 70.
 Jaekel, O. 1892 B, 158 ("cochliodontiden").
 1928 A, 43 ("cochliodonten").
 Jordan, D. S. 1905 A, 1, 531; 11, 564.
 1907 B, 758.
 1923 A, 94.
 Koken, E. 1904 A, 305 ("cochliodontiden").
 Krause, P. G. 1901 A, 120 ("cochliodonten").
 Pompeckj, J. F. 1913 A, 1128.
 Regan, C. T. 1906 A, 723, 747, 749.

- Schlosser, M. 1917 A, 133, 146 ("cochliodontiden").
 Stromer, E. 1912 A, 22.
 Woodward, A. S. 1904 C, 188.
 1911 C, 46 ("cochliodonts").
 1919 B, 380.
 1921 B, 38.
 1924 A, 109, 110.
 Zittel and Koken 1911 A, 59.
 Zittel and Schlosser 1923 A, 64.
 Zittel and Woodward 1902 A, 35.

HELODUS Agassiz. Type *H. simplex* Agassiz.

- Hav, O. P. 1902 A, 286.
 Agassiz, L. 1844 C, 267.
 Barkas, W. J. 1874 D, 546.
 Bronn, H. G. 1848 A, 583.
 Coulon, L. 1903 A, 114.
 Eastman, C. R. 1900 F, 581.
 1903 B, 203.
 1917 A, 259.
 Giebel, C. G. 1855 A, 115.
 Hay, O. P. 1901 B, 66.
 Heilprin, A. 1887 A, 300.
 Hoernes, R. 1886 A, 543.
 Jordan, D. S. 1923 A, 94.
 Owen, R. 1845 B, 61.
 Savage, T. E. 1902 A, 257.
 Stevenson, J. J. 1907 A, 168.
 Woodward, A. S. 1921 B, 36.
 1924 A, 109.
 1924 B, 341.
Helodus angulatus Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Burlington); Illinois.
Helodus biformis Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Worthen, A. H. 1866 A, 115.
 Mississippian (Kinderhook); Iowa.
Helodus carbonarius Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Pennsylvanian (Coal-measures); Illinois.
Helodus clivulus Branson.
 Branson, E. B. 1914 A, 67, pl. iv, figs. 1, 2, 5, 6.
 Upper Devonian (Craghead); Missouri.
Helodus comptus Eastman.
 Eastman, C. R. 1909 A, 488.
 1908 A, 112 (name only).
 Pennsylvanian (Waverly); Pennsylvania.
Helodus coniculus Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Branson, E. B. 1906 A, 1332, pl. xli, figs. 5-7.
 Eastman, C. R. 1903 B, 204.
 Newberry, J. S. 1874 G, 90, 98.
 Mississippian (Salem); Indiana: (Berea);
 Pennsylvania: (Burlington); Iowa: (Keokuk);
 Illinois.
Helodus consolidatus Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Missouri, Illinois.

- Helodus crenulatus** Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
Helodus dens-humani Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
Helodus denticulatus Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
Helodus devonicus Branson.
 Branson, E. B. 1914 A, 66, pl. iv, figs. 19, 20.
 Upper Devonian (Craghead); Missouri.
Helodus elegantulus Branson.
 Branson, E. B. 1906 A, 1383, pl. xli, figs. 27-29.
 Mississippian (Salem); Indiana.
Helodus elytra Newb. and Worth.
 Hay, O. P. 1902 A, 286.
 Mississippian (Keokuk); Illinois.
Helodus gibberulus Agassiz.
 Hay, O. P. 1902 A, 286.
 Eastman, C. R. 1902 B, 71.
 1907 B, 20.
 1908 A, 112, 287.
 1909 A, 489.
 Lambe, L. M. 1913 D, 19.
 Upper Devonian (Chemung); Pennsylvania.
Helodus gibbus Leidy.
 Hay, O. P. 1902 A, 286.
 Mississippian (Warsaw); Illinois.
Helodus incipiens Branson.
 Branson, E. B. 1914 A, 67, pl. iv, figs. 11-16.
 Upper Devonian (Craghead); Missouri.
Helodus incisus Eastman.
 Eastman, C. R. 1903 B, 204, pl. v, fig. 54.
 Branson, E. B. 1906 A, 1382, pl. xli, figs. 10-12.
 Mississippian (Salem); Indiana.
Helodus laevis Newb.
 Hay, O. P. 1902 A, 286.
 Branson, E. B. 1906 A, 1381, pl. xli, figs. 16-22.
 Mississippian (Salem); Indiana.
Helodus limax Newb. and Worth.
 Hay, O. P. 1902 A, 287.
 Mississippian (Burlington); Iowa.

Helodus minutus Branson.

Branson, E. B. 1906 A, 1384, pl. xli, figs. 32-34
(This genus?).

Mississippian (Salem); Indiana.

Helodus ornatus Branson.

Branson, E. B. 1906 A, 1383, pl. xlii, figs. 38-40.

Mississippian (Salem); Indiana.

Helodus politus Newb. and Worth.

Hay, O. P. 1902 A, 287.

Branson, E. B. 1916 A, 643

Mississippian (Keokuk); Illinois.

Helodus robustus Branson.

Branson, E. B. 1906 A, 1382, pl. xlii, figs. 22-24.

Mississippian (Salem); Indiana.

Helodus rowleyi Branson.

Branson, E. B. 1914 A, 67 pl. iv, figs. 11-16.

Upper Devonian (Craghead), Missouri.

Helodus rugosus Newb. and Worth.

Hay, O. P. 1902 A, 287.

Branson, E. B. 1916 A, 643, pl. ii, fig. 10.

Eastman, C. R. 1903 B, 182, pl. ii, fig. 14.

Hussakof and Bryant 1919 A, 149.

Pennsylvanian (Atchison); Nebraska: (Embar); Wyoming; Pennsylvania

Helodus subpolitus Branson.

Branson, E. B. 1916 A, 642, pl. i, figs. 6-16.

Pennsylvanian (Embar); Wyoming.

Helodus subtuberatus Lambe.

Lambe, L. M. 1912 B, 247.

Lambe, L. M. 1913 D, 20, pl. ii.

Upper Devonian; Alberta.

Helodus sulcatus Newb. and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Keokuk); Illinois.

Helodus undulatus Newb. and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Keokuk); Illinois.

Helodus wortheni Hay.

Hay, O. P. 1902 A, 287.

Mississippian (Burlington); Illinois.

Helodus sp. indet.

Branson, E. B. 1906 A, 1383.

Mississippian (Salem); Indiana.

Van Tuyl, F. M. 1925 A, 141

Mississippian (Burlington); Iowa.

CRASSIDONTA BRANSON. Type *C. stuckenbergi* Branson.

Branson, E. B. 1916 A, 643.

Crassidonta stuckenbergi Branson.

Branson, E. B. 1916 A, 643, pl. 1, figs. 17-27.

Pennsylvanian (Embar), Wyoming.

VENUSTODUS St. John and Worth.

Hay, O. P. 1902 A, 287.

Eastman, C. R. 1903 B, 203.

Hay, O. P. 1901 B, 66

Jordan, D. S. 1923 A, 94.

Venustodus argutus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Chester); Illinois.

Venustodus robustus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Burlington); Iowa.

Type *Chomatodus venustus* Leidy.**Venustodus tenuicristatus** St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Keokuk); Illinois, Iowa, Missouri.

Venustodus variabilis St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Burlington); Illinois, Iowa.

Venustodus venustus (Leidy).

Hay, O. P. 1902 A, 287.

Mississippian (St. Louis); Illinois, Missouri.

XENODUS S. A. Miller. Type *Goniodus hertzeri* Newb.

Hay, O. P. 1902 A, 287.

Jordan, D. S. 1923 A, 94

Xenodus hertzeri (Newb.).

Hay, O. P. 1902 A, 287.

Claypole, E. W. 1896 B, 353 (Goniodus).

1903 A, 319, 346 (Goniodus).

Eastman, C. R. 1907 B, 18 (X. hertzeri).

1908 A, 283 (X. hertzeri).

Hussakof, L. 1908 A, 37.

Upper Devonian (Huron); Ohio.

PERIPLECTRODUS St. John and Worth. Type *P. warreni* St. John and Worth.

Hay, O. P. 1902 A, 287.

Davis, J. W. 1884 A, 632.

Eastman, C. R. 1902 B, 57.

1902 H, 150.

Eastman, C. R. 1903 D, 285.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 94.

Periplectrodus compressus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (St. Louis); Illinois.

Periplectrodus expansus St. John and Worth.

Hay, O. P. 1902 A, 287.

Mississippian (Chester); Illinois.

Periplectrodus warreni St. John and Worth.

Hay, O. P. 1902 A, 287.

Fuchs, T. 1900 A, 8, fig. 3.

Mississippian (Burlington); Illinois.

PSEPHODUS Agassiz. Type *Cochliodus magnus* Portlock.

Agassiz, L. 1862, in Morris and Roberts, Quart. Jour. Geol., xviii, 101

Hay, O. P. 1902 A, 288

Abel, O. 1912 F, 488.

1919 A, 136.

Arlt, T. 1923 A, 487 (*Psephodus*, *Temodus*).

Barkas, W. J. 1874 D, 548.

Branson, E. B. 1905 A, 20.

Coulon, L. 1903 A, 114.

Eastman, C. R. 1917 A, 259.

Jaekel, O. 1911 A, 56, fig. 51.

Jordan, D. S. 1919 B, 320.

1923 A, 94

Lerche, M. 1908 B, 272.

Pompeckj, J. F. 1913 A, 1128

St. John and Worthen 1883 A, 59, 63 (*Psephodus*); 75 (*Temodus*)

Woodward, A. S. 1898 B, 42, fig. 33.

Zittel and Koken 1911 A, 60

Zittel and Schlosser 1923 A, 65, fig. 106.

Zittel and Woodward 1902 A, 36.

Psephodus acutus Branson.

Branson, E. B. 1905 A, 24, pl. 1, fig. 1.

Pennsylvanian; Illinois.

Psephodus carbonarius Branson.

Branson, E. B. 1905 A, 25, pl. 1, fig. 7.

Pennsylvanian; Indiana

Psephodus crenulatus (Newb. and Worth.).

Hay, O. P. 1902 A, 288

Branson, E. B. 1905 A, 22.

Newberry and Worthen 1866 A, 94, pl. viii.

figs. 12, 12a (*Aspidodus convolutus*).

Mississippian (Chester); Illinois, Kentucky, Missouri, Indiana

Psephodus latus St. John and Worth.

Hay, O. P. 1902 A, 288

Branson, E. B. 1906 A, 1387, pl. xli, fig. 23 (This species?).

Mississippian (Salem); Indiana: (St. Louis); Illinois and Missouri.

Psephodus legrandensis Branson.

Branson, E. B. 1905 A, 22, 24, pl. 1, fig. 2

Eastman, C. R. 1917 A, 259, pl. xviii, fig. 2.

Lerche, M. 1908 B, 273 ("Deltodus").

Mississippian (Kinderhook), Iowa.

Psephodus lunulatus St. John and Worth.

Hay, O. P. 1902 A, 288.

Mississippian (Chester); Illinois

Psephodus obliquus St. John and Worth.

Hay, O. P. 1902 A, 288

Branson, E. B. 1905 A, 22.

Mississippian (Kinderhook), Iowa

Psephodus placenta (Newb. and Worth.).

Hay, O. P. 1902 A, 288

Worthen, A. H. 1866 A, 115 (*Helodus*).

Mississippian (Kinderhook); Iowa

Psephodus politus Newb.

Hay, O. P. 1902 A, 288

Mississippian (Burlington), Illinois.

Psephodus regularis (St. John and Worth.).

Hay, O. P. 1902 A, 288

Branson, E. B. 1906 A, 1388, pl. xli, fig. 32

Mississippian (Salem); Indiana.

Psephodus? reticulatus St. John and Worth.

Hay, O. P. 1902 A, 288.

Eastman, C. R. 1903 B, 204

Mississippian (Kinderhook), Iowa

Psephodus? symmetricus St. John and Worth.

Hay, O. P. 1902 A, 288

Mississippian (Kinderhook); Iowa.

Psephodus sp. indet.

Branson, E. B. 1906 A, 138

1914 A, 68, pl. iv, fig. 18.

Mississippian (Salem); Indiana; Upper Devonian; Missouri.

SANDALODUS Newb. and Worth. Type *S. angustus* St. John and Worth.

Hay, O. P. 1902 A, 288.

Arlt, T. 1923 A, 487.

Barkas, W. J. 1874 D, 548

Branson, E. B. 1905 A, 25.

1916 A, 652

Dean, B. 1906 B, 139

Eastman, C. R. 1902 B, 57

1903 B, 196.

1917 A, 260

Fuchs, T. 1900 A, 7.

Hay, O. P. 1901 B, 66
Jordan, D. S. 1919 B, 342.
1923 A, 94

St. John, O. 1902 A, 659.
Zittel and Koken 1911 A, 60
Zittel and Schlosser 1923 A, 65
Zittel and Woodward 1902 A, 36

***Sandalodus alatus* (Newb. and Worth.).**

Hay, O. P. 1902 A, 292 (Deltodus)
Branson, E. B. 1905 A, 30, pl. 1, figs. 3-5.
Lerche, M. 1908 B, 277 (Deltodus)
Mississippian (Keokuk and Burlington);
Iowa, Illinois.

***Sandalodus angustus* Newb. and Worth.**

Hay, O. P. 1902 A, 288
Mississippian (Keokuk), Illinois

***Sandalodus carbonarius* Newb. and Worth.**

Newberry and Worthen 1866 A, 104, pl. x, figs. 4, 5
Hay, O. P. 1902 A, 289 (Orthopleurodus angularis, in part)
Eastman, C. R. 1903 B, 181 (From Orthopleurodus)
Worthen, A. H. 1866 A, 61
Pennsylvanian (Missourian), Kansas, Nebraska, Iowa, Missouri (Coal measures); Illinois, Indiana

***Sandalodus convolutus* Branson.**

Branson, E. B. 1906 A, 1386 pl. xli, figs. 42-45
Mississippian (Salem), Indiana

***Sandalodus ellipticus* Newb.**

Hay, O. P. 1902 A, 289
Mississippian (Kinderhook); Iowa

***Sandalodus emarginatus* Branson.**

Branson, E. B. 1905 A, 29, pl. ii, figs. 1-3
Mississippian (Keokuk), Iowa

***Sandalodus laevissimus* Newb. and Worth.**

Hay, O. P. 1902 A, 289 (S. crassus; S. rhomboides).
Branson, E. B. 1906 A, 1385
Eastman, C. R. 1900 F, 582, fig. 1.

ORTHOPLEURODUS St. John and Worth.

Hay, O. P. 1902 A, 289
Eastman, C. R. 1903 B, 181 (Deltodus).
Hay, O. P. 1901 B, 66
Hayden, F. V. 1872 A, 132 (Xystrodus).
Jordan, D. S. 1919 B, 405 (Syn. of Sandalodus).
1919 D, 405 (Type said to be *O. convexus*).
1923 A, 94.

It is to be noted that *O. angularis*, the type of this genus, is referred by Eastman to *Deltodus*. If this is accepted, the other species follow.

***Orthopleurodus angularis* (Newb. and Worth.).**

Hay, O. P. 1902 A, 289.

Eastman, C. R. 1903 B, 196, fig. 11.

Hussakof, L. 1908 A, 36 (S. crassus)
Newberry and Worthen 1866 A, 104, pl. x, figs. 6-8.

St. John and Worthen 1883 A, 186, pl. xi, figs. 8, 9 (and 5?)

Savage, T. E. 1902 A, 256, 262
Mississippian (Keokuk), Iowa, Illinois, and Missouri (Salem), Indiana.

***Sandalodus latidens* Branson.**

Branson, E. B. 1905 A, 31, pl. 1, fig. 11.
Mississippian (Keokuk); Iowa.

***Sandalodus? minor* (Newb. and Worth.).**

Hay, O. P. 1902 A, 289.
Barkas, W. J. 1874 D, 548 (Trigonodus minor)
Branson, E. B. 1906 A, 1394.
Mississippian (Keokuk); Illinois (Salem), Indiana

***Sandalodus occidentalis* (Leidy).**

Hay, O. P. 1902 A, 292 (Deltodus complanatus, D. occidentalis).
Barkas, W. J. 1874 D, 548 (Trigonodus major).
Branson, E. B. 1905 A, 26, 28, pl. 1, figs. 8, 9
1906 A, 1384, pl. xli, fig. 33
Eastman, C. R. 1903 B, 198 (Sandalodus complanatus), 200, pl. iv, fig. 38, pl. v, fig. 53 (Deltodus occidentalis)
1917 A, 260 pl. viii, fig. 3 (Deltodus)
Savage, T. E. 1902 A, 256, 262 (Deltodus occidentalis?).
Mississippian (Keokuk, Kinderhook, Burlington, St. Louis); Illinois, Missouri (Salem); Indiana

***Sandalodus parvulus* Newb. and Worth.**

Hay, O. P. 1902 A, 289
Mississippian (St. Louis); Illinois, Missouri, Iowa

***Sandalodus porcatus* Branson.**

Branson, E. B. 1905 A, 30, pl. 1, fig. 14
Branson, E. B. 1906 A, 1386, pl. xli, fig. 26
Mississippian (St. Louis); Indiana

***Sandalodus* sp. indet.**

Hay, O. P. 1902 A, 289 Mississippian (Warsaw), Illinois.

Type *O. angularis* (Newb. and Worth.).

Eastman, C. R. 1903 B, 181, pl. ii, fig. 19 (Deltodus)
Hayden, F. V. 1872 A, 127 (Xystrodus occidentalis).
Meek, F. B. 1869 A, 3 (Xystrodus? Name only)
1872 A, 101-127 (Deltodus?), 112-127 (Xystrodus?).

Newberry and Worthen 1866 A, 104, pl. x, figs. 4, 5 (Sandalodus carbonarius)
Woodruff, E. G. 1906 A, 290 (Deltodus).
Worthen, A. H. 1866 A, 61 (Cochlodius).
Pennsylvanian (Coal-measures); Indiana, Illinois, Iowa, Missouri, Kansas, Nebraska.

Orthopleurodus convexus St. John and Worth.

Hay, O. P. 1902 A, 289.

Pennsylvanian (Coal-measures); West Virginia.

Orthopleurodus novo-mexicanus St. John and Worth.

Hay, O. P. 1902 A, 289.

Cockerell, T. D. A. 1908 C, 161.
Mississippian; New Mexico.**PLATYODUS** Newb. Type *P. lineatus* Newb.

Hay, O. P. 1902 A, 290.

Jordan, D. S. 1923 A, 94.

Platyodus lineatus Newb.

Hay, O. P. 1902 A, 290.

Hussakof, L. 1908 A, 33.
Mississippian (Waverly); Kentucky.**VATICINODUS** St. John and Worth. Type *V. vetustus* St. John and Worth.

Hay, O. P. 1902 A, 290.

Ardt, T. 1923 A, 487.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 405 (Syn. of *Sandalodus*).
1923 A, 94.**Vaticinodus? similis** St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Chester); Illinois.

Vaticinodus? carbonarius St. John and Worth.

Hay, O. P. 1902 A, 290.

Pennsylvanian (Lower); Illinois.

Vaticinodus? simplex St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (St. Louis); Illinois, Missouri, Iowa.

Vaticinodus discrepans St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Burlington); Iowa.

Vaticinodus vetustus St. John and Worth.

Hay, O. P. 1902 A, 290.

Mississippian (Kinderhook); Iowa.

Vaticinodus? lepis St. John and Worth.

Hay, O. P. 1902 A, 290.

Pennsylvanian (Upper Coal-measures); Illinois.

PLATYXYSTRODUS Hay. Type *Cochliodus striatus* M'Coy.

Hay, O. P. 1902 A, 290.

Ardt, T. 1923 A, 487 (*Xystrodus*).

Eastman, C. R. 1903 B, 180.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1920 C, 480.
1923 A, 94.**Platyxystrodus bellinus** (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Pennsylvanian (Lower Coal-measures); Illinois.

Platyxystrodus occidentalis (St. John).St. John, O. 1870 A, 436 (*Xystrodus*).Hay, O. P. 1902 A, 289 (*Orthopleurodus angularis*, in part).

Eastman, C. R. 1903 B, 181 (This genus?).

St. John, O. 1872 A, 244, pl. iv, fig. 18 (*Xystrodus*?).

Pennsylvanian (Missourian); Nebraska.

Platyxystrodus imitatus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (St. Louis); Missouri, Illinois, Iowa.

Platyxystrodus simplex (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Burlington); Iowa, Illinois.

Platyxystrodus verus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Chester); Illinois.

Platyxystrodus inconditus (St. John and Worth.).

Hay, O. P. 1902 A, 290.

Mississippian (Keokuk); Illinois, Iowa.

ICANODUS S. A. Miller. Type *Tomodus convexus* St. John and Worth.

Hay, O. P. 1902 A, 291.

Barkas, W. J. 1874 D, 548 (*Tomodus*).

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1923 A, 94.

Icanodus limitaris (St. John and Worth.).

Hay, O. P. 1902 A, 291.

Mississippian (Burlington); Iowa.

STENOPTERODUS St. John and Worth. Type *S. planus* St. John and Worth.

Hay, O. P. 1902 A, 291.
1901 B, 67.

Jordan, D. S. 1919 B, 405 (Syn. of *Deltodus*).
1923 A, 94.

Stenopterodus elongatus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw); Illinois

DELTOOPSIS St. John and Worth.

Hay, O. P. 1902 A, 291.

Arlt, T. 1923 A, 487.

Fuchs, T. 1900 A, 7.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 405
1923 A, 94

Deltodopsis affinis St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw), Illinois

Deltodopsis angustus (Newb. and Worth.).

Hay, O. P. 1902 A, 291.
Mississippian (Chester), Illinois.

Deltodopsis? bialveatus St. John and Worth.

Hay, O. P. 1902 A, 291.

Stenopterodus planus St. John and Worth.

Hay, O. P. 1902 A, 291.

Mississippian (Burlington); Iowa, Illinois.

Stenopterodus sp. indet.

Hay, O. P. 1902 A, 291.
Mississippian (Keokuk); Illinois

Type D. angustus (Newb. and Worth.).

Branson, E. B. 1906 A, 1391, pl. xli, figs 8, 9.

Mississippian (Salem); Indiana: (Burlington, Keokuk); Iowa.

Deltodopsis? exornatus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Warsaw); Illinois.

Deltodopsis? inflexus St. John and Worth.

Hay, O. P. 1902 A, 291.
Mississippian (Keokuk); Illinois.

Deltodopsis sancti-indovici St. John and Worth.

Hay, O. P. 1902 A, 291
Branson, E. B. 1906 A, 1391
Mississippian (St. Louis), Iowa, Illinois, Missouri.

DELTODUS Agassiz. Type *Pacilodus sublaevis* M'Coy.

Agassiz, L. 1862, in Morris and Roberts, Quart Jour Geol., xviii, 100

Hay, O. P. 1902 A, 291.

Barkas, W. J. 1874 D, 546

Branson, E. B. 1905 A, 25
1906 A, 1394, pl. xlii, fig. 37 (This genus?).
1916 A, 652.

Coulon, L. 1903 A, 114.

Dean, B. 1906 B, 136 ("deltodonts").

Eastman, C. R. 1903 B, 196, 198.
1917 A, 261.

Fuchs, T. 1900 A, 7

Jaekel, O. 1926 B, 43 ("deltodonten").

Hay, O. P. 1901 B, 66.

Hayden, F. V. 1872 A, 132.

Jordan, D. S. 1923 A, 94

Leriche, M. 1908 B, 275

Savage, T. E. 1902 A, 257.

Stevenson, J. J. 1907 A, 168.

Deltodus attenuatus Branson.

Branson, E. B. 1905 A, 33, pl. i, fig. 6.
Pennsylvanian, Missouri.

Deltodus cinctulus St. John and Worth.

Hay, O. P. 1902 A, 292.
Mississippian (Warsaw); Missouri, Illinois.

Deltodus cinctus Newb.

Hay, O. P. 1902 A, 292 (D. cinctus, D. parvus)

Branson, E. B. 1906 A, 1390, pl. xlii, fig. 41 (D. parvus a syn.)

Mississippian (Salem), Indiana (St. Louis); Iowa (St. Louis); Missouri

Deltodus cingulatus Newb. and Worth.

Hay, O. P. 1902 A, 292
Mississippian (Chester); Illinois.

Deltodus fasciatus Newb. and Worth.

Hay, O. P. 1902 A, 292.
Mississippian (Keokuk); Illinois. Warsaw?; Illinois: (St. Louis?), Iowa.

Deltodus grandis Newb.

Hay, O. P. 1902 A, 292
Branson, E. B. 1905 A, 25
Mississippian (Keokuk); Illinois.

Deltodus inornatus Newb.

Hay, O. P. 1902 A, 292
Mississippian (Kinderhook); Iowa

Deltodus intermedius St. John and Worth.

Hay, O. P. 1902 A, 292.
Branson, E. B. 1906 A, 1384 (*Sandalodus occidentalis*)
Keyes, C. R. 1897 A, 322.
Mississippian (St. Louis); Iowa, Illinois.

Deltodus latior St. John and Worth.

Hay, O. P. 1902 A, 292.

Branson, E. B. 1906 A, 1389 (D spatulatus).

Eastman, C. R. 1903 B, 200, pl. v, fig. 53
(var. of D. occidentalis).

Mississippian (Keokuk); Illinois, Iowa

Deltodus littoni Newb. and Worth.

Hay, O. P. 1902 A, 292.

Hussakof, L. 1908 A, 30.

Mississippian (St. Louis); Missouri

Deltodus mercurii Newb.

Hay, O. P. 1902 A, 292

Branson, E. B. 1916 A, 648, pl. u, figs 27, 28;

pl. v, figs 1-II, pl. vi, figs 1-6

Cockerell, T. D. A. 1908 C, 161.

Hussakof, L. 1908 A, 31.

Pennsylvanian; New Mexico, Wyoming

Deltodus obliquus (St. John and Worth.).

Hay, O. P. 1902 A, 292.

Mississippian (Chester); Illinois

Deltodus planidens Cope.

Hay, O. P. 1902 A, 292.

Montgomery, T. H. 1904 A, 57 (Deltodes)

Pennsylvanian?; Texas.

Deltodus powellii St. John and Worth.

Hay, O. P. 1902 A, 292

Pennsylvanian; Colorado.

Deltodus propinquus St. John and Worth.

Hay, O. P. 1902 A, 293

Pennsylvanian; Illinois.

Deltodus spatulatus Newb. and Worth.

Hay, O. P. 1902 A, 291 (Deltodopsis convolutus?); 293 (D spatulatus); 294 (Cochlodius costatus).

Branson, E. B. 1905 A, 26, 28, 31, pl. i, figs. 10-13

1906 A, 1388, pl. xi, fig 34 (Includes Cochlodius costatus and Deltodopsis convolutus)

Eastman, C. R. 1903 B, 198, pl. iv, figs. 41, 42; pl. v, fig 55 (D convolutus a syn.), 201 (Cochlodius costatus).

Fuchs, T. 1900 A, 8, fig 2 (Deltodopsis convolutus)

Newberry and Worthen 1870 A, pl. iii, fig. 11

Savage, T. E. 1902 A, 256, 262.

Van Tuyl, F. M. 1925 A, 141

Mississippian (Kinderhook); Iowa (Burlington); Illinois (Salem); Indiana

Deltodus trilobus St. John and Worth

Hay, O. P. 1902 A, 293

Branson, E. B. 1906 A, 1389, pl. xi, figs 27, 28

Mississippian (Kinderhook, Burlington), Illinois: Iowa (Salem); Indiana

Deltodus undulatus Newb. and Worth.

Hay, O. P. 1902 A, 293

Eastman, C. R. 1900 F, 582

Mississippian (Keokuk); Iowa

Deltodus sp. indet.

Branson, E. B. 1906 A, 1391, pl. xi, fig 24

Mississippian (Salem); Indiana

CHITONODUS St. John and Worth. Type *C. springeri* St. John and Worth.

Hay, O. P. 1902 A, 293 (Chitnodus, errore).

Jordan, D. S. 1919 B, 405.

1919 D, 405 (Type said to be *Cochlodius latus*)1920 C, 425 (Type said to be *C. springeri*)

1923 A, 94

Zittel and Schlosser 1923 A, 65 (Chitnodus).

Chitnodus antiquus St. John and Worth.

Hay, O. P. 1902 A, 293 (Chitnodus).

Mississippian (Burlington); Iowa.

Chitnodus liratus St. John and Worth.

Hay, O. P. 1902 A, 293 (Chitnodus)

Mississippian (St. Louis); Illinois

Chitnodus springeri St. John and Worth.

Hay, O. P. 1902 A, 293 (Chitnodus).

Mississippian (Burlington); Illinois, Iowa

PAECILODUS M'Coy. Type *P. jonesii* M'Coy.

Hay, O. P. 1902 A, 293.

Agassiz, L. 1844 C, 267.

Ardt, T. 1923 A, 487.

Barkas, W. J. 1874 D, 548 (Paeclodus).

Bronn, H. G. 1848 B, 1022.

1849 A, 647.

Eastman, C. R. 1903 B, 202.

Egerton, P. G. 1853 C, 282.

Hay, O. P. 1901 B, 66.

Jordan, D. S. 1919 B, 266.

Jordan, D. S. 1923 A, 94.

Ridewood, W. G. 1896 A, 387.

Savage, T. E. 1902 A, 257.

Woodward, A. S. 1898 B, 42, fig. 33

Zittel and Koken 1911 A, 60.

Paeclodus carbonarius St. John and Worth.

Hay, O. P. 1902 A, 293

Pennsylvanian; Illinois, Kansas

Pœcilodus cestriensis St. John and Worth.

Hay, O. P. 1902 A, 293.
Mississippian (Chester); Illinois.

Pœcilodus convolutus Newb. and Worth.

Hay, O. P. 1902 A, 293
Mississippian (Keokuk); Illinois, Iowa.

Pœcilodus rugosus (Newb. and Worth.).

Hay, O. P. 1902 A, 293 (Chrtinodus).
Eastman, C. R. 1903 B, 202.

Savage, T. E. 1902 A, 262.
Mississippian (Keokuk); Illinois, Iowa.

Pœcilodus tribulis (St. John and Worth.).

Hay, O. P. 1902 A, 293 (Chrtinodus).
Eastman, C. R. 1903 B, 203
Mississippian (Keokuk), Iowa, Illinois.

Pœcilodus varsoviensis St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (Warsaw); Illinois.

STREBLODUS Agassiz. Type *Cochlodius oblongus* M'Coy.

Agassiz, L. 1862, in Morris and Robert's, Quart
Jour Geol Soc, xviii 101
Eastman, C. R. 1903 B, 182
Jordan, D. S. 1919 B, 320
Woodward, A. S. 1889 D, 209
Zittel and Schlosser 1923 A, 65
Zittel and Woodward 1902 A, 36

Streblodus angustus Eastman.

Eastman, C. R. 1903 B, 182, pl. ii, fig. 20, text-
fig. 9.
Woodruff, E. G. 1906 A, 290
Pennsylvania (Atchison), Nebraska

COCHLIODUS Agassiz. Type *C. contortus* Agassiz.

Hay, O. P. 1902 A, 294
Abel, O. 1912 F, 488
Agassiz, L. 1844 C, 267.
Aichel, O. 1919 A, 242
Ardt, T. 1923 A, 487.
Baikas, W. J. 1874 D, 545
Boklen, H. 1887 A, 77
Branson, E. B. 1906 A, 22.
Bronn, H. G. 1848 A, 317.
1849 A, 647
Eastman, C. R. 1902 B, 57
Fuchs, T. 1900 A, 7
Giebel, C. G. 1855 A, 115.
Goodrich, E. S. 1909 A, 146
Hay, O. P. 1901 B, 66.
Heilprin, A. 1887 A, 300
Jaekel, O. 1911 A, 53.
1926 B, 43 ("cochliodonten").
Jordan, D. S. 1923 A, 94
Leriche, M. 1908 B, 278
Owen, R. 1845 B, 62, pl. xxii, fig. 1.
Peyer, B. 1920 A, 109.
Pompeckj, J. F. 1913 A, 1128, fig. 31.
Reynolds, S. H. 1897 A, 109.
Ridewood, W. G. 1896 A, 385, 387, figs. 11, 12.
Terra, P. 1911 A, 200, fig. 46
Van de Wiele, C. 1902 A, 245 ("cochliodont-
tides").
Woodward, A. S. 1915 B, lxxvi ("cochliodonts").
Zittel and Koken 1911 A, 59.
Zittel and Schlosser 1923 A, 65, fig. 105.
Zittel and Woodward 1902 A, 35.

Cochliodus latus Leidy.

Hay, O. P. 1902 A, 293 (Chrtinodus).
Eastman, C. R. 1900 F, 582 (Helodus coxanus
a syn.)
1902 B, 57.

Eastman, C. R. 1902 D, 659.
1903 B, 199, 205
1909 A, 489

Merrill, G. P. 1907 A, 11 (Helodus coxanus).
Van Tuyl, F. M. 1925 A, 150, 154 (C. nobilis).
Mississippian (Keokuk); Illinois, Iowa

Cochliodus leidyi St. John and Worth.

Hay, O. P. 1902 A, 294
Eastman, C. R. 1902 D, 658.
Mississippian (Chester); Illinois.

Cochliodus obliquus St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (St. Louis); Missouri.

Cochliodus sancti-ludovici (St. John and Worth.).

Hay, O. P. 1902 A, 293 (Pœcilodus).
Eastman, C. R. 1902 D, 658, 659
St. John, O. 1902 A, 658, fig. 4.
Mississippian (St. Louis); Illinois, Iowa.

Cochliodus vanhornii St. John and Worth.

Hay, O. P. 1902 A, 294.
Mississippian (St. Louis); Illinois, Iowa,
Missouri.

Cochliodus sp. indet.

Branson, E. B. 1906 A, 1394, pl. xlii, fig. 37
(Cochliodus or Deliodus).
Mississippian (Salem); Indiana.

DELTOPTYCHIUS Agassiz, L. Type *Cochlodus acutus* M'Coy.

Agassiz, L. 1862, in Morris and Roberts, Quart. Jour. Geol., xviii, 100.

Hay, O. P. 1902 A, 294.

Abel, O. 1912 F, 488

Ardit, T. 1923 A, 487.

Barkas, W. J. 1874 D, 546

Eastman, C. R. 1903 B, 196.

Hay, O. P. 1901 B, 67.

Jaekel, O. 1892 B, 157

Jordan, D. S. 1919 B, 320.

1923 A, 94

Woodward, A. S. 1921 B, 37

1924 A, 109.

Zittel and Koken 1911 A, 60

Zittel and Schlosser 1923 A, 65.

***Deltoptychius expansus* St. John and Worth.**

Hay, O. P. 1902 A, 294.

Mississippian (St. Louis); Illinois, Iowa, Missouri.

***Deltoptychius nitidus* (Leidy).**

Hay, O. P. 1902 A, 294.

Mississippian (Chester); Illinois.

***Deltoptychius primus* St. John and Worth.**

Hay, O. P. 1902 A, 294

Mississippian (Burlington); Iowa.

***Deltoptychius springeri* (St. John and Worth.).**

Hay, O. P. 1902 A, 293 (Pæclodus).

Cockerell, T. D. A. 1908 C, 161 (Pæclodus).

Eastman, C. R. 1903 B, 202 (To *Deltoptychius*).

Mississippian; New Mexico.

***Deltoptychius varsoviensis* St. John and Worth.**

Hay, O. P. 1902 A, 294.

Mississippian (Warsaw); Illinois

***Deltoptychius wachsmuthi* St. John and Worth.**

Hay, O. P. 1902 A, 294

Mississippian (Keokuk), Illinois, Iowa, Missouri.

***Deltoptychius wortheni* (St. John and Worth.).**

Hay, O. P. 1902 A, 294 (Pæclodus).

Eastman, C. R. 1903 B, 202 (To *Deltoptychius*)
Mississippian (Chester), Illinois

HYBODONTIDÆ Owen.

Owen, R. 1846 E, 51.

Hay, O. P. 1902 A, 295 (Orodontidæ); 298 (Heterodontidæ)

Abel, O. 1912 F, 489, 565 (Cestracionidæ)

1919 A, 121 (Heterodontidæ)

Agassiz, L. 1844 D, 142 ("cestraciontes").

1874 A, 131 (Cestracion)

Allis E. P. 1915 A 577 (Cestracion)

Ameghino, F. 1906 A, 187 (Cestracionidæ).

Ardit, T. 1907 D, 644 (Cestracionidæ), 659 (Hybodontidæ).

1923 A, 487 ("hybodontiden").

Beer, G. R. 1924 A, 17, figs. 1-7, 15 (Heterodontus).

1924 B, 39, figs. 1-21 (Heterodontus).

1924 C, 298, figs. 11, 12, 41 (Heterodontus)

1925 A, 270, figs. 2-6, 107, 109, 116 (Heterodontus).

Bonaparte, C. L. 1840 A, 46 (Cestraciontina).

Bridge, T. W. 1904 A, 444, 742 (Heterodontidæ)

Brown, H. G. 1849 A, 830, seq (Cestraciontes).

Carus, V. 1875 A, 602 (Cestracionidæ).

Chapman, F. 1918 A, 5 (Cestracionidæ).

Cunningham, J. T. 1912 A, 246 (Heterodontidæ).

Damel, J. F. 1914 A, 147, pls. viii, ix, figs. 1-4 (Heterodontus).

1915 A, 447, pls. i-viii (Heterodontus).

1916 A, 353 (Heterodontus).

Day, E. C. H. 1865 A, 565 ("cestracionts").

Dean, B. 1906 B, 155 ("cestracionts").

Deecke, W. 1913 A, 80 ("hybodontiden").

Dollo, L. 1889 F, 341 (Cestracionidæ).

Dollo, L. 1904 C, 50 (Cestracionidæ).

Duméril, A. 1856 A, 132 ("cestraciontes")

Eastman, C. R. 1902 B, 56 (Cestracion), 70 (Cestracionidæ)

1902 F, 267 ("cestracionts")

Fowler, H. W. 1911 A, 26 (Heterodontidæ)

Fuhringer, K. 1903 A, 362 (Cestracionidæ).

1904 B 461 (Cestracion)

Gegenbaur, C. 1870 B, 450, pl. xvi, figs. 18-20 (Heterodontus)

1870 C, 402, fig. 18 (Heterodontus).

Gill, T. 1872 C, 23 (Heterodontidæ).

1885 A, lxxv (Heterodontidæ).

1905 A, 657 (Heterodontidæ).

Goodrich, E. S. 1909 A, 145 (Cestracionidæ).

Gregory, W. K. 1907 D, 446 (Cestracionidæ, Orodontidæ)

Hawkes, O. A. M. 1905 A, 81 (Heterodontidæ).

Hay, O. P. 1901 B, 67, 70 (Heterodontidæ); 67, 71 (Orodontidæ).

1909 C, 58 (Heterodontus).

Hoernes, R. 1886 A, 542 (Cestracionidæ)

Huber, O. 1901 A, 609 (Cestracionidæ).

Humphreys, J. 1908 A, 10 (Cestracion).

Jaekel, O. 1903 C, 389 ("orodontiden").

Jordan, D. S. 1905 A, 1, 527 (Hybodontidæ); 528 (Orodontidæ); n, 574 (Heterodontidæ).

1907 B, 184, 188, 758 (Heterodontidæ, Orodontidæ, Hybodontidæ)

1923 A, 95 (Orodontidæ, Heterodontidæ).

1925 B, 7 (Heterodontidæ).

Jordan and Evermann 1917 A, 95 (Heterodontus)

- Jordan and Gilbert 1882 A, 32, 62 (Cestraciontidæ).
 Kerr, J. G. 1908 A, 169 (Heterodontus).
 Koken, E. 1904 A, 305 ("hybodontiden," Cestraciontidæ).
 1907 A, 272 ("cestraciontiden")
 Leigh-Sharpe, W. H. 1926 A, 337 (Cestraciontidæ)
 Leunis and Ludwig 1883 A, 785 (Cestraciontidæ).
 Luther, A. 1909 A, 3 (Heterodontidæ).
 Miklouho-Maclay and Maclay 1879 A, 307 (Heterodontidæ), 320 (Heterodonti).
 Mummery, J. H. 1917 A, 251 (Cestracion).
 Osburn, R. C. 1907 A, 418 (Cestracion).
 1907 B, 174 ("cestracion").
 Owen, R. 1845 B, 32, pls. x-xiii ("cestracions")
 Pompeckj, J. F. 1913 A, 1123, 1126 (Hybodontidæ, Cestraciontidæ).
 Rabnerson, A. 1925 A, 560, figs. 1, 2 (Cestracion)
 Rauther, M. 1913 A, 1098 (Heterodontidæ).
 Regan, C. T. 1906 A, 749, 750 (Cestraciontidæ, Hybodontidæ), 723 (Hybodontinæ)
 1908 C, 493 (Cestraciontidæ)
 Regan, C. T. 1908 D, 493 (Cestraciontidæ).
 Ridewood, W. G. 1921 A, 369 (Cestraciontidæ)
 Schlosser, M. 1917 A, 133, 134, 135, 136, 137, 139, 141, 147 ("cestraciontiden," "hybodontiden").
 Schmalhausen J. J. 1913 A, 24 (Heterodontidæ).
 Secerov, S. 1911 A, 8, 10, pl. i (Cestracion).
 Steinmann, G. 1907 A, 400 (Hybodontidæ, Cestraciontidæ).
 Stromer, E. 1912 A, 19 (Cestraciontidæ), 20 (Hybodontidæ).
 Struver, J. 1864 B, 12, pls. i, ii (Heterodontidæ).
 Terra P. 1911 A, 199 (Cestraciontidæ)
 Van Wijhe, J. W. 1922 A, 291 (Cestraciontidæ).
 Versluys, J. 1922 B, 96 (Heterodontidæ).
 Waite, E. R. 1896 A, 325 ("cestracions")
 Wallace, A. R. 1876 A, ii, 461 (Cestraciontidæ).
 Whitehouse, R. H. 1910 C, 325 (Heterodontus).
 Woodward, A. S. 1891 E, 62 ("hybodonts," "cestracions")
 1912 A, (1911), 213 (Cestraciontidæ).
 1921 B, 37 ("hybodonts").
 Zittel and Koken 1911 A, 53, 56 (Hybodontidæ, Cestracionida)
 Zittel and Schlosser 1923 A, 58 (Hybodontidæ)

ORODUS Agassiz. Type *O. cinctus* Agassiz.

- Hay, O. P. 1902 A, 295.
 Agassiz, L. 1844 C, 267.
 Barkas, W. J. 1874 D, 547.
 Bronn, H. G. 1848 B, 852.
 1849 A, 646
 Cushing, H. P. 1912 A, 581
 Dean, B. 1909 C, 249.
 Eastman, C. R. 1902 B, 77
 1907 B, 75.
 1909 A, 489.
 Eastman, Gregory and Matthew 1917 A, 117.
 Egerton, P. G. 1853 C, 282.
 Giebel, C. G. 1855 A, 115.
 Goodrich, E. S. 1909 A, 147.
 Hay, O. P. 1901 B, 67, 70.
 1912 A, 36.
 Heilprin, A. 1887 A, 300
 Hoernes, R. 1886 A, 543
 Jordan, D. S. 1923 A, 95.
 Mantell, G. A. 1844 A, 618, fig. 128.
 Miller, A. M. 1916 A, 72.
 Pompeckj, J. F. 1913 A, 1125.
 Raymond, P. E. 1925 B, 554.
 Savage, T. E. 1902 A, 257.
 Schlosser, M. 1917 A, 133
 Zittel and Koken 1911 A, 53.
 Zittel and Schlosser 1923 A, 59, figs. 15, 92.
Orodus allenii St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Pennsylvanian; Iowa.
Orodus carinatus St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Keokuk); Iowa.
Orodus colletti Newb.
 Hay, O. P. 1902 A, 295.
 Branson, E. B. 1906 A, 1394.
 Mississippian (Salem); Indiana.
Orodus dædæleus St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Kinderhook); Iowa
Orodus decussatus St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Kinderhook); Iowa.
Orodus devonicus Hussakof and Bryant.
 Hussakof and Bryant 1919 A, 15, 153, pl. xiv, fig. 4.
 Upper Devonian (Genesee); New York.
Orodus elegantulus Newb. and Worth.
 Hay, O. P. 1902 A, 295
 Claypole, E. W. 1903 A, 319, 321.
 Eastman, C. R. 1907 B, 18.
 Hussakof and Bryant 1919 A, 153.
 Mississippian (Burlington); Iowa, Indiana: Mississippian?; Ohio.
Orodus fastigiatus St. John and Worth.
 Hay, O. P. 1902 A, 295
 Mississippian (Burlington); Iowa.
Orodus gibbosus (Newb. and Worth.).
 Hay, O. P. 1902 A, 295.
 Mississippian (Keokuk); Illinois, Iowa.
Orodus intermedius Eastman.
 Eastman, C. R. 1903 B, 183, pl. iv, figs. 35, 36.
 Pennsylvanian (Missourian); Missouri.
Orodus major St. John and Worth.
 Hay, O. P. 1902 A, 295.
 Mississippian (Burlington); Iowa.

Orodus mammillaris Newb. and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Keokuk); Illinois.

Orodus minutus Newb. and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Keokuk); Illinois.

Orodus neglectus St. John and Worth.

Hay, O. P. 1902 A, 295.
Branson, E. B. 1906 A, 1391, pl. xlii, figs. 35, 36 (This species?).
Mississippian (St. Louis); Illinois, Iowa.
(Salem); Indiana.

Orodus ornatus Newb. and Worth.

Hay, O. P. 1902 A, 295.
Savage, T. E. 1902 A, 262 (O. ornatussumus)
Mississippian (Keokuk), Illinois, Iowa.

Orodus? parallelus St. John and Worth.

Hay, O. P. 1902 A, 295.
Mississippian (Kinderhook); Iowa.

Orodus parvulus St. John and Worth.

Hay, O. P. 1902 A, 295
Mississippian (St. Louis); Illinois.

Orodus plicatus Newb. and Worth.

Hay, O. P. 1902 A, 296
Mississippian (St. Louis); Missouri.

Orodus ramosus Agassiz.

Hay, O. P. 1902 A, 296.
Brongniart, C. 1888 C, 47.
Hussakof, L. 1908 A, 32.
Worthen, A. H. 1866 A, 115 (O. multicarnatus).
Mississippian (Kinderhook); Indiana: Waverly; Michigan.

Orodus simplex Branson.

Branson, E. B. 1906 A, 1392, pl. xlii, figs. 25, 26.
Mississippian (Salem); Indiana.

Orodus tuberculatus Newb. and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Burlington); Illinois, Iowa

Orodus turgidus St. John and Worth.

Hay, O. P. 1902 A, 296
Mississippian (Chester), Illinois.

Orodus variabilis Newb.

Hay, O. P. 1902 A, 296.
Newberry, J. S. 1874 G, 94, 98
Mississippian (Waverly), Ohio, Kentucky.

Orodus variocostatus St. John and Worth.

St. John and Worthen 1875 A, 304, pl. vii, figs. 1-9.
Hay, O. P. 1902 A, 296.
Mississippian (Burlington), Illinois, Iowa

EOÖRODUS Branson. Type *E. typus* Branson.

Branson, E. B. 1914 A, 68.
Jordan, D. S. 1923 A, 95

Eoörodus typus Branson.

Branson, E. B. 1914 A, 68, pl. iv, figs. 22-24.
Upper Devonian (Craghead), Missouri

LEIODUS St. John and Worth. Type *L. calcaratus* St. John and Worth.

Hay, O. P. 1902 A, 296.
1901 B, 67.
Jordan, D. S. 1923 A, 95.

Leiodus calcaratus St. John and Worth.

Hay, O. P. 1902 A, 296
Mississippian (Burlington); Iowa, Illinois.

Leiodus grossipunctatus St. John and Worth.

Hay, O. P. 1902 A, 296.
Mississippian (Burlington), Iowa, Illinois

MESODMODUS St. John and Worth. Type *M. exsculptus* St. John and Worth.

Hay, O. P. 1902 A, 297.
1901 B, 67.
Jordan, D. S. 1923 A, 95.

Mesodmodus explanatus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Kinderhook); Iowa.

Mesodmodus exsculptus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Kinderhook); Iowa.

Mesodmodus ornatus St. John and Worth.

Hay, O. P. 1902 A, 297.
Mississippian (Burlington); Iowa, Illinois.

DESMIODUS St. John and Worth. Type *D. tumidus* St. John and Worth.

Hay, O. P. 1902 A, 297.

1901 B, 67.

Jordan, D. S. 1923 A, 95.

Desmiodus costelliferus St. John and Worth.

Hay, O. P. 1902 A, 297.

Branson, E. B. 1906 A, 1392 (D. costelliferous).

Mississippian (St. Louis), Illinois, Missouri.

Desmiodus? fiabellum St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Missouri.

Desmiodus? ligoniformis St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Missouri, Iowa.

Desmiodus minusculus (Newb. and Worth.).

Hay, O. P. 1902 A, 297.

Mississippian (Keokuk); Illinois.

Desmiodus salemensis Branson.

Branson, E. B. 1906 A, 1392, pl. xlu, figs. 12-14.

Mississippian (Salem); Indiana.

Desmiodus tumidus St. John and Worth.

Hay, O. P. 1902 A, 297.

Mississippian (St. Louis); Illinois, Missouri.

PETRODUS M'Coy, F. Type *P. patelliformis* M'Coy.

Hay, O. P. 1902 A, 297.

Barkas, W. J. 1874 D, 547.

Eastman, C. R. 1903 B, 219.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 95.

Woodward, A. S. 1903 A, 488.

Zittel and Koken 1911 A, 63.

Petrodus acutus Newb. and Worth.

Hay, O. P. 1902 A, 297.

Woodward, A. S. 1903 A, 487, fig. 9.

Pennsylvanian; Illinois.

Petrodus buttersi Newberry.

Newberry, J. S. 1889 A, pl. xxvii, fig. 1.

Hussakof, L. 1908 A, 50.

Pennsylvanian; Illinois.

Petrodus occidentalis Newb. and Worth.

Hay, O. P. 1902 A, 298.

Keyes, C. R. 1888 B, 26 (This species?).

1891 A, 332.

Savage, T. E. 1922 A, 238, 240, 246

Shaw and Savage 1912 A, 7.

Pennsylvanian; Illinois, Indiana, Iowa.

Petrodus? pustulosus Newb. and Worth.

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

STEMMATIAS Hay. Type *Stemmatodus cheiriformis* St. John and Worth.

Hay, O. P. 1902 A, 298.

Eastman, C. R. 1903 B, 219.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 95.

Stemmatias bicristatus (St. John and Worth.).

Hay, O. P. 1902 A, 298

Mississippian (Burlington), Iowa.

Stemmatias bifurcatus (St. John and Worth.).

Hay, O. P. 1902 A, 298

Mississippian (Burlington); Iowa

Stemmatias cheiriformis (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa

Stemmatias compactus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Chester); Illinois.

Stemmatias keokuk (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Keokuk); Illinois, Iowa

Stemmatias simplex (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

Stemmatias symmetricus (St. John and Worth.).

Hay, O. P. 1902 A, 298.

Mississippian (Burlington); Iowa.

HYBODUS Agassiz. Type *H. plicatilis* Agassiz. See, however, Jordan 1923 A, 95.

Hay, O. P. 1902 A, 299.

Abel, O. 1908 E, 402.

1919 A, 119, fig. 77.

1920 A, 327, 330, fig. 517.

Agassiz, L. 1844 D, 142 ("hybodontes").

Aichel, O. 1919 A, 242.

Alessandri, G. 1910 A, 31.

Andreae, A. 1900 A, 470 (Hybodus); 471 (Orthohybodus, Parahybodus).

Ardit, T. 1923 A, 487.

- Barkas, W. J. 1874 B, 163, figs 1, 2.
1874 C, 287.
1874 D, 546.
- Branca, W. 1908 C, 395
- Bridge, T. W. 1904 A, 445
- Bronn, H. G. 1848 A, 598.
1849 A, 650
- Broom, R. 1909 A, 252, pl. xii, fig. 1.
- Case, E. C. 1915 A, 124.
- Charlesworth, E. 1839 A, 242, pl. iv.
- Coulon, L. 1903 A, 112.
- Day, E. C. H. 1865 A, 565
- Dean, B. 1909 C, 249.
- Deecke, W. 1926 A, 185.
- Dollo, L. 1889 F, 336
- Eastman, C. R. 1902 B, 77.
1911 B, 184
- Egerton, P. G. 1855 A, 8 B, 2.
- Evans, H. M. 1923 A, 15, text-fig. 8
- Flower, W. H. 1886 A, 285.
- Furbringer, K. 1904 B, 464.
- Fraas, E. 1889 B, 233.
1895 A, 24
- Gervais, P. 1852 A, explan. pls. lxxvii, lxxviii
1859 A, 525, 526, pls. lxxvii, lxxviii
- Giebel, C. G. 1855 A, 114, pl. xlvii.
- Goodrich, E. S. 1903 A, 753
1909 A, 511.
- Hay, O. P. 1901 B, 67, 71 (*Hybodus*, *Parahybodus*, *Orthohybodus*).
- Humphreys, J. 1908 A, 11.
- Heilmann, A. 1887 A, 300.
- Jacobshagen, E. 1923 A, 178.
- Jaekel, O. 1898 D, 151.
1903 F, 36.
1906 C, 158.
- Jordan, D. S. 1919 B, 186.
1923 A, 95.
- Krause, P. G. 1901 A, 120.
- Klaatsch, H. 1890 A, 121.
- Koken, E. 1893 B, 384.
1904 A, 304
1907 A, 261, pls. xi-xiv.
- Mantell, G. A. 1844 A, 609, fig. 129
- Owen, R. 1845 B, 56, pl. xi, fig. 1.
- Philippi and Frech 1903 A, 10, pl. 1.
- Pompeckj, J. F. 1913 A, 1125, figs. 25, 27.
- Priem, F. 1908 B, 3, figs. 1-3, 9.
- Regan, C. T. 1906 A, 748
- Reis, O. M. 1894 A, 61.
- Ridewood, W. G. 1896 A, 383.
1921 A, 344.
- Sauvage, E. 1867 A, 107.
1902 C, 180.
- Schlesinger, G. 1909 A, (142)
- Schlosser, M. 1917 A, 135, 139
- Schmidt, M. 1921 A, 103, figs. 1, 2.
- Stensio, E. A. 1921 A, 1.
1925 A, 126, fig. 31.
- Storms, R. 1891 A, 145
- Stromer, E. 1917 A, 23
1925 A, 19, 21
- Terra, P. 1911 A, 202, fig. 52
- Traquair, R. H. 1900 C, 505
- Williamson, W. C. 1851 A, 679.
- Woodward, A. S. 1891 E, 62, pls. 1, II
1896 E, 69
1915 B, lxxvii
1917 C, 541
1919 A (1916), 3, pls. 1-III; text-figs. 1-5.
1921 A, 179
1921 B, 30, fig. 1
1921 C, 179
1922 C, 70, fig. 68
1924 B, 340
- Zittel and Koken 1911 A, 53, fig. 89
- Zittel and Schlosser 1923 A, 59, figs. 11, 93, 96
- Hybodus clarkensis* Cragin.**
- Hay, O. P. 1902 A, 299.
Upper Cretaceous ("Neocomian"); Kansas
- Hybodus copei* Hay.**
- Hay, O. P. 1902 A, 299
- Hussakof, L. 1908 A, 31.
Triassic?, Texas
- Hybodus nevadensis* Wemple.**
- Wemple, E. M. 1906 A, 72, pl. vii, fig. 3
- Jordan and Hannibal 1923 A, 30, 61.
- Merriam, J. C. 1908 C, 18.
Triassic (Middle), Nevada
- Hybodus polyprion* Agassiz.**
- Hay, O. P. 1902 A, 299
- Cockerell, T. D. A. 1908 C, 161
- Marsh, O. C. 1899 A, 230
Upper Jurassic (Stonesfield); England:
(Morrison), Wyoming
- Hybodus shastensis* Wemple.**
- Wemple, E. M. 1906 A, 73, pl. vii, fig. 4.
- Jordan, D. S. 1907 A, 98, fig. 1.
- Jordan and Beal 1913 A, 246.
- Jordan and Hannibal 1923 A, 30, 61
Triassic (Upper); California.
- Hybodus* sp. indet.**
- Case, E. C. 1915 A, 96
- Hussakof, L. 1911 A, 157, pl. xxx, fig. 5
Permian (Wichita?, Clear Fork?); Texas
- ACRODUS Agassiz. Type *A. gaillardoti* Agassiz.**
- Hay, O. P. 1902 A, 299.
- Agassiz, L. 1844 C, 267.
- Alessandri, G. 1910 A, 34.
- Ameghino, F. 1906 A, 186.
- Andrews, E. 1900 A, 471.
- Barkas, W. J. 1874 D, 544.
- Bridge, T. W. 1904 A, 445.
- Bronn, H. G. 1848 A, 8.
1849 A, 648.
- Coulon, L. 1903 A, 115.
- Deecke, W. 1926 A, 185.
- Egerton, P. G. 1855 A, 8 B, 2.
- Fowler, H. W. 1911 A, 28
- Fraas, E. 1889 B, 233 (*Acrodus*); 234 (*Sphenonchus*).
- Gervais, P. 1852 A, explan. pl. lxxvii
1859 A, 525, pl. lxxvii.
- Giebel, C. G. 1855 A, 115.

- Hay, O. P. 1901 B, 67, 71.
 Heilprin, A. 1887 A, 300.
 Humphreys, J. 1908 A, 11.
 Jordan, D. S. 1905 A, 1, 528.
 1923 A, 95.
 Klaatsch, H. 1890 A, 122.
 Koken, E. 1893 B, 384.
 Moodie, R. L. 1926 A, 61, 79, 81, pl. ix.
 Owen, R. 1845 B, 54, pls. xiv-xvi.
 1866 A, 378.
 Philippi and Frech 1903 A, 11, pl. 1.
 Pompeckj, J. F. 1913 A, 1125, fig. 24.
 Priem, F. 1908 B, 4.
 Reynolds, S. H. 1897 A, 109.
 Sauvage, E. 1867 A, 106.
 Schlosser, M. 1917 A, 135.
 Stensio, E. A. 1921 A, 8.
 Storms, R. 1891 A, 114.
 Woodward, A. S. 1915 B, lxvii.
 1917 C, 541.
 1919 A, (1916), 14.
 1922 C, 70, fig. 69.
 1924 B, 342.
 Zittel and Koken 1911 A, 54.
 Zittel and Schlosser 1923 A, 60, fig. 97.

WODNIKA Münster. Type *Acrodus althausii* Münster.

- Münster, G. 1843, Beitr. Petrefact., 48.
 Case, E. C. 1926 B, 196 (Wodnika).
 Jordan, D. S. 1923 A, 95.
 Jordan and Gilbert 1919 A, 17, 20.
 Schlosser, M. 1917 A, 134.
 Woodward, A. S. 1889 D, 248.

***Acrodus alexandreae* Wemple.**

- Wemple, E. M. 1906 A, 71, pl. vii, figs. 5, 6.
 Jordan and Hannibal 1923 A, 30, 61.
 Merriam, J. C. 1908 C, 18.
 Triassic (Middle); Nevada.

***Acrodus emmonsii* Leidy.**

- Hay, O. P. 1902 A, 299.
 Miocene?; North Carolina.

***Acrodus humilis* Leidy.**

- Hay, O. P. 1902 A, 299.
 Fowler, H. W. 1911 A, 28, fig. 3.
 Upper Cretaceous (Vincentown); New Jersey.

***Acrodus oreodontus* Wemple.**

- Wemple, E. M. 1906 A, 72, pl. vii, figs. 1, 2.
 Jordan and Hannibal 1923 A, 30, 61.
 Merriam, J. C. 1908 C, 18.
 Triassic (Middle); Nevada.

***Acrodus wempliae* Jordan.**

- Jordan, D. S. 1907 A, 100, fig. 2.
 Jordan and Beal 1913 A, 245, 246.
 Jordan and Hannibal 1923 A, 30, 61.
 Triassic (Upper); California.

STROPHODUS Agassiz. Type *S. reticulatus* Agassiz.

- Agassiz, L. 1843 B, (1838), iii, 116.
 Coulon, L. 1903 A, 116.
 Gervais, P. 1852 A, explan. pl. lxxviii.
 1859 A, 526, pl. lxxviii.
 Giebel, C. G. 1855 A, 115.
 Heilprin, A. 1887 A, 300.
 Jordan, D. S. 1923 A, 95.
 Nicholson and Lydekker 1889 A, 943 (Syn. of *Asteracanthus*).
 Owen, R. 1869 C, 193, pl. vii.
 Pompeckj, J. F. 1913 A, 11-25, fig. 27.
 Priem, F. 1911 C, 7, pl. ii.
 Sauvage, E. 1867 A, 101.
 Woodward, A. S. 1889 D, 307, 314 (Syn. of *Asteracanthus*).

- Woodward, A. S. 1898 B, 46 (Syn. of *Asteracanthus*).
 1922 C, 71, fig. 70.
 Zittel and Schlosser 1923 A, 62, figs. 98, 99.

***Strophodus shastensis* Bryant.**

- Bryant, H. C. 1914 A, 27, figs. 1, 2.
 Jordan and Hannibal 1923 A, 32, 61 (*Asteracanthus*).
 Zittel and Schlosser 1923 A, 62.
 Triassic (Upper); California.

***Strophodus* sp. indet.**

- Bryant, H. C. 1914 B, 155. Upper Triassic, California.

PALEOSPINAX Egerton. Type *Thyellina prisca* Agassiz.

- Egerton, P. G. 1872, Mem. Geol. Surv. Unit. Kingd., Dec. 13, No. 7.
 Bridge, T. W. 1904 A, 197, 445.
 Davis, J. W. 1881 C, 429, pl. xx.
 Dean, B. 1909 C, 254.
 Dollo, L. 1889 F, 337.
 Egerton, P. G. 1873 A, 420.
 Evans, H. M. 1923 A, 15, text-fig. 7.
 Goodrich, E. S. 1909 A, 144.
 Jaekel, O. 1898 D, 152.
 Jordan, D. S. 1905 A, i, 528.

- Jordan, D. S. 1923 A, 96.
 Koken, E. 1907 A, 271.
 Lambe, L. M. 1918 B, 27.
 Nicholson and Lydekker 1889 A, 943.
 Pompeckj, J. F. 1913 A, 1126.
 Regan, C. T. 1906 A, 723 (To *Palaospinax* mae).
 Sternberg, C. M. 1926 A, 104.
 Storms, R. 1891 A, 144.
 Woodward, A. S. 1889 D, xvii, 321.
 1898 B, 46.
 1915 B, lxx.

Zittel, K. A. 1890 A, 87.
 Zittel, Eastman, etc 1902 A, 29.
 Zittel and Koken 1911 A, 56.
 Zittel and Schlosser 1923 A, 62.

Palaeospinax ejuncidus Lambe.
 Lambe, L. M. 1918 B, 27, figs.
 Upper Cretaceous (Edmonton); Alberta

SYNECHODUS Woodward. Type *Hybodus dubrisiensis* Mackie.

Woodward, A. S. 1888 I, 288.
 Chapman, F. 1918 A, 5, 31, pl. v, figs. 11, 13.
 Eastman, C. R. 1901 B, 102.
 Jordan, D. S. 1923 A, 96.
 Leriche, M. 1902 A, 29.
 Priem, F. 1908 B, 59, 77, figs. 20, 34-37.
 1911 C, 14, 22, text-figs. 1, 2, 10, 11.
 Schlosser, M. 1917 A, 139, 141.
 Storms, R. 1891 A, 144.
 Woodward, A. S. 1889 D, 325, fig. 12.
 1891 E, 65, pl. n.
 1896 E, 70.
 1898 B, 46, fig. 36
 1912 A, (1911), 216, pls. xiv, xlv.
 Zittel and Schlosser 1923 A, 62.

Synechodus clarkii Eastman.
 Eastman, C. R. 1901 B, 103, pl. xiv, figs. 5a, 5b, 5c.
 Clark and Miller 1912 A, 117, 118.
 Leriche, M. 1902 A, 30 (S. clarki).
 Miller, B. L. 1911 A, 103.
 1912 A, 2 (S. clarki).
 Shattuck, Miller and Bibbins 1907 A, 5
 Eocene (Aqua); Maryland.

Synechodus sp. indet.

Dumble, E. T. 1920 A, 175 (Synecodus).
 Eocene (Jackson); Texas.

EDESTOIDÆ, new name.

EDESTIDÆ Jaekel.

Jaekel, O. 1899 A, 298.
 Abel, O. 1908 D, (208) ("edestiden").
 1912 F, 569 ("edestiden").
 1919 A, 136.
 Eastman, C. R. 1900 F, 579.
 1917 A, 269.
 Fuchs, T. 1900 A, 5 ("edestiden").
 Goodrich, E. S. 1909 A, 147.
 Gregory, W. K. 1907 D, 446
 Jaekel, O. 1900 A, 148 ("edestiden").
 1911 A, 56.
 Jordan, D. S. 1923 A, 96.
 Karpinsky, A. P. 1902 A, 205.
 1911 A, 1105 ("edestides").

Karpinsky, A. P. 1912 A, 69.
 1915 A, 123 ("edestides").
 1922 B, 379
 Klaatsch, H. 1901 A, 435 ("edestiden").
 Pompeckj, J. F. 1913 A, 1126
 Sauvage, H. E. 1901 D, 69 ("edestiden")
 Schlosser, M. 1917 A, 134 ("edestiden").
 Stromer, E. 1905 A, 132 ("edestiden").
 1912 A, 22.
 Woodward, A. S. 1902 E, 230 ("edestides")
 1924 A, 111, 112
 Zittel and Koken 1911 A, 58.
 Zittel and Schlosser 1923 A, 63.

CAMPODUS Koninek. Type *C. agassizianus* Koninek.

Hay, O. P. 1902 A, 296.
 Abel, O. 1912 F, 489, 567.
 Barkas, W. J. 1874 D, 545 (Campodus); 547 (Lophodus)
 Brongniart, C. 1888 C, 48.
 Bronn, H. G. 1848 A, 208.
 Eastman, C. R. 1901 A, 795.
 1902 B, 56, 57, 70, pls. 1-3.
 1902 E, 852.
 1902 F, 267.
 1902 H, 150, 151.
 1903 B, 184.
 1903 D, 285.
 1905 C, 405.
 1917 C, 214.
 Eastman, Gregory and Matthew 1917 A, 117.
 Hay, O. P. 1901 B, 67, 70.
 1909 C, 58.
 1912 A, 36
 Jordan, D. S. 1923 A, 95.
 Karpinsky, A. P. 1903 A, 32, figs. 2-5.
 1922 B, 379.
 1925 A, 128.
 Mudge, B. F. 1875 A, 122 (Agasodus).

Pompeckj, J. F. 1913 A, 1126.
 Raymond, P. E. 1925 B, 554
 Stevenson, J. J. 1907 A, 168 (Lophodus)
 Schlosser, M. 1917 A, 133
 Stromer, E. 1905 A, 133.
 Van de Wiele, C. 1902 A, 246.
 Woodward, A. S. 1917 F, 3, pl. 1, figs. 8-10.
 1921 B, 34.
 1924 A, 112.
 Zittel and Koken 1911 A, 57
 Zittel and Schlosser 1923 A, 63.

Campodus basalis (Cope).

Hay, O. P. 1902 A, 296.
 Pennsylvanian; Illinois.

Campodus corrugatus (Newb. and Worth.).

Hay, O. P. 1902 A, 296.
 Branson, E. B. 1916 A, 644, pl. m, figs. 1-6.
 Eastman, C. R. 1902 E, 853, 854; fig. 2
 Mason, S. C. 1883 A, 13 (Agasodus).
 Pennsylvanian; Illinois, Kansas, Wyoming.

Campodus scitulus (St. John and Worth.).

- Hay, O. P. 1902 A, 296.
 Eastman, C. R. 1902 B, 97.
 1902 G, 540.
 1903 B, 194.
 Pennsylvanian (Mazon Creek), Illinois.

Campodus variabilis (Newb. and Worth.).

- Hay, O. P. 1902 A, 296.
 Abel, O. 1912 F, 491, fig. 373
 Eastman, C. R. 1902 B, 57, pls 1-III; text-fig 2.
 1902 D, 659.
 1902 E, 854.
 1903 B, 184, pl. 1, fig. 1, pl. II, figs 15, 16, text-fig. 10
 1903 D, 283.
 1905 C, 406
 Hussakof, L. 1908 A, 43.
 Karpinsky, A. P. 1903 A, 33.
 1922 B, 383

- Karpinsky, A. P. 1925 A, 128, figs. 1, 10, 12.
 Pompeckj, J. F. 1913 A, 1128, fig. 28.
 Raymond, P. E. 1925 B, 554.
 Smith, G. L. 1915 A, 282 (Agassizodus)
 Springer, F. 1924 A, 234 (Agassizodus).
 Van de Wiele, C. 1902 A, 246
 Woodruff, E. G. 1906 A, 288, 290, pl. xviii, fig. 1.
 Woodward, A. S. 1917 F, 4, figs. A, B.
 1924 B, 342

- Zittel and Koken 1911 A, 57, figs. 97, 98.
 Zittel and Schlosser 1923 A, 63, fig. 102.
 Subcarboniferous; Belgium: Pennsylvanian (Missourian); West Virginia, Iowa, Kansas, Illinois, Iowa, Nebraska

Campodus virginianus (St. John and Worth.).

- Hay, O. P. 1902 A, 297
 Pennsylvanian; West Virginia.

Campodus sp. indet.

- Branson, E. B. 1916 A, 645, pl. II, figs. 21, 21a.
 Pennsylvanian (Embar), Wyoming.

SCOLIORHIZA Raymond. Type *S. kellyi* Raymond.

- Raymond, P. E. 1925 B, 555.

Scoliorhiza kellyi Raymond.

- Raymond, P. E. 1925 B, 555, fig. 2
 Triassic (Upper Banff); Alberta

Scoliorhiza whitel (St. John and Worth.).

- Hay, O. P. 1902 A, 296 (Orodus).
 Raymond, P. E. 1925 B, 554, 555 (Orodus, Scoliorhiza).
 Mississippian (Kinderhook); Iowa, Mississippian? (Upper Banff limestone); Alberta.

EDESTUS Leidy. Type *E. vorax* Leidy.

- Hay, O. P. 1902 A, 337.
 Abel, O. 1912 F, 567.
 Barkas, W. J. 1874 D, 546 (Edestes).
 Dean, B. 1912 A, 227.
 Eastman, C. R. 1900 F, 580.
 1901 A, 795.
 1902 B, 55, 64, 70
 1902 D, 658.
 1902 F, 267.
 1902 H, 148, 151.
 1903 B, 185.
 1903 D, 281, 286
 1905 C, 405.
 1912 C, 657.
 1917 A, 269.
 1917 C, 214.
 Eastman, Gregory and Matthew 1917 A, 117.
 Fuchs, T. 1900 A, 5.
 Goodrich, E. S. 1909 A, 147.
 Hay, O. P. 1907 A, 23.
 1909 C, 43, 50, 57.
 1912 A, 31.
 Jaekel, O. 1901 A, 557 ("edestiden").
 Jordan, D. S. 1905 A, i, 529.
 1910 B, 186
 1919 B, 272.
 1923 A, 96.
 Karpinsky, A. P. 1902 A, 207.
 1911 A, 1113.
 1912 A, 72.

- Karpinsky, A. P. 1915 A, 125.
 1916 A, 701.
 1922 B, 379.
 1925 A, 128, fig. 7.
 Kemna, A. 1902 A, 234
 Lydekker, R. 1910 F, 675.
 1913 A, 24.
 Missuna, A. 1908 A, 529.
 Moodie, R. L. 1913 A, 188
 Newton, E. T. 1904 A, 1.
 1917 A, 6.
 Pompeckj, J. F. 1913 A, 1126.
 Priem, F. 1900 B, 122.
 Renevier, E. 1900 A, vi.
 Sauvage, H. E. 1901 D, 69.
 Van de Wiele, C. 1902 A, 244
 Woodward, A. S. 1890 F, 147.
 1900 F, 34.
 1902 E, 232.
 1915 B, lxvi.
 1917 F, 1, 6, pl. i.
 1924 A, 110, fig. 3.
 Zittel and Koken 1911 A, 58.
 Zittel and Schlosser 1923 A, 63.

Edestus crenulatus Hay.

- Hay, O. P. 1909 C, 43, pl. xii, figs. 1-3, text figs. 1, 2.
 Abel, O. 1912 F, 567, fig. 439.
 1920 A, 331, fig. 524.

- Hay, O. P. 1912 A, 35.
 Karpinsky, A. P. 1911 A, 1107.
 1912 A, 72.
 1922 B, 381, 384, figs 6, 7.
 1925 A, 130, fig. 7.
 Pompeckj, J. F. 1913 A, 1127, fig. 29.
 Zittel and Koken 1911 A, 58, fig. 99.
 Zittel and Schlosser 1923 A, 64, fig. 103
 Pennsylvanian; Illinois?
- Edestus giganteus Newb.**
 Hay, O. P. 1902 A, 337.
 Eastman, C. R. 1902 B, 72, fig. 6c.
 Hussakof, L. 1908 A, 46.
 Karpinsky, A. P. 1902 A, 207, fig. 5.
 1911 A, 1113
 1912 A, 81.
 1916 A, 708.
 1925 A, 136.
 Newberry, J. S. 1889 A, 225, pl. xl.
 Priem, F. 1900 B, 121, fig. 2.
 Pennsylvanian; Illinois.
- Edestus heinrichii Newb. and Worth.**
 Hay, O. P. 1902 A, 337.
 Eastman, C. R. 1902 B, 65, 66, 72; figs. 6a, 7
 (E. heinrichi).
 1902 D, 659 (E. heinrichi).
 1903 D, 288 (E. heinrichi).
 1905 C, 406 (E. heinrichi).
 1917 A, 269, pl. vi, fig. 1 (E. heinrichi)
 Hay, O. P. 1909 C, 43, pl. xiii, figs 1, 2, 3
 (E. heinrichi).
 1912 A, 35, 37 (E. heinrichi)
 Hussakof, L. 1908 A, 47 (E. heinrichi)
 Jaekel, O. 1900 A, 145.
 Karpinsky, A. P. 1902 A, 206, fig. 4 (E. heinrichi)
 1911 A, 1107 (E. heinrichi).
 1912 A, 72.
 1922 B, 380 (E. heinrichi)
 Misuna, A. 1908 A, 533, fig. 3 (E. heinrichi).
 St. John, O. 1902 A, 658 (E. heinrichi).
 Pennsylvanian; Illinois, Indiana, Iowa.

TOXOPRION Hay. Type

- Hay, O. P. 1909 C, 56, 57.
 Abel, O. 1912 F, 567, 568
 Eastman, C. R. 1903 D, 286 (Campyloprion)
 Hay, O. P. 1912 A, 31.
 Jordan, D. S. 1923 A, 96.
 Karpinsky, A. P. 1912 A, 86.
 1922 B, 385
 Lydekker, R. 1910 F, 676.
 Pompeckj, J. F. 1913 A, 1126.
 Zittel and Schlosser 1923 A, 63

Toxoprion lecontei Dean.

- Hay, O. P. 1902 A, 337 (Edestus).
 Eastman, C. R. 1900 F, 580 (Edestus).

CAMPYLOPRION Eastman. Type

- Eastman, C. R. 1902 H, 148, 151.
 Eastman, C. R. 1902 B, 56, 64, 70.
 1903 B, 185.
 1903 D, 283, 286.

Edestus minor Newb.

- Hay, O. P. 1902 A, 337
 Eastman, C. R. 1902 B, 65, 66, 72.
 1902 D, 654, 659, fig. 3.
 1902 H, 148.
 1903 D, 288, pl. xxi, figs. 2, 3.
 Hay, O. P. 1909 C, 48, text-fig. 6.
 1912 A, 36.
 Hussakof, L. 1908 A, 47.
 Hussakof and Bryant 1919 A, 163
 Karpinsky, A. P. 1902 A, 205, figs. 1, 2
 1911 A, 1113
 1912 A, 80
 1922 B, 380, 384
 Newton, E. T. 1904 A, 2, fig. 1.
 St. John, O. 1902 A, 658, fig. 3 (E. vorax).
 Woodward, A. S. 1917 F, 4, fig. D.
 Pennsylvanian; Indiana.

Edestus mirus Hay.

- Hay, O. P. 1912 A, 31, 36, pls. i, ii.
 Karpinsky, A. P. 1915 A, 124, fig. 2.
 1916 A, 707.
 1922 B, 386, fig. 11
 Woodward, A. S. 1917 F, 3.
 1924 A, 111, fig. 4
 Pennsylvanian, Iowa

Edestus serratus Hay.

- Hay, O. P. 1909 C, 47, pl. xii, fig. 4, text
 figs 3, 4.
 Karpinsky, A. P. 1911 A, 1114.
 1912 A, 82
 Pennsylvanian; Illinois?

Edestus vorax Leidy.

- Hay, O. P. 1902 A, 337.
 Collett, J. 1872 A, 203.
 Eastman, C. R. 1902 B, 75, fig. 6b.
 1902 D, 659
 Hay, O. P. 1912 A, 35.
 Karpinsky, A. P. 1902 A, 205
 1912 A, 81
 1916 A, 708.
 Pennsylvanian, Arkansas

Edestus lecontei Dean.

- Eastman, C. R. 1902 B, 65, 66 (Campyloprion)
 1903 D, 286 (Campyloprion).
 Hay, O. P. 1907 A, 23 (Edestus).
 1909 C, 52 (Edestus).
 Jaekel, O. 1900 A, 147 (Edestus).
 Karpinsky, A. 1902 A, 208, fig. 6 (Edestus
 lecontei).
 1912 A, 82, fig. 3 (Edestus).
 1915 A, 125 (Edestus).
 1922 B, 385.
 1925 A, 135.
 Sauvage, H. E. 1899 A, 4 (Edestus).
 Pennsylvanian, Nevada.

Type C. annectans Eastman.

- Hay, O. P. 1907 A, 23.
 1909 C, 56.
 Jordan, D. S. 1905 A, i, 529.
 1908 A, 96.

Karpinsky, A. P. 1911 A, 1117.

1912 A, 86 (Syn. of *Helicoprion*).

Campyloprion annectans Eastman.

Eastman, C. R. 1902 H, 151, pl. viii, fig. 2;
text-fig. 3.

1902 B, 65, 66, pl. iv, text-figs. 3, 4.

Eastman, C. R. 1903 D, 286, pl. xxi, fig. 1.

Hay, O. P. 1909 C, 56.

Karpinsky, A. P. 1912 A, 82

Van de Wiele, C. 1902 A, 246

North America; Locality and geological age
unknown.

HELICOPRIONIDÆ Karpinsky.

Karpinsky, A. P. 1911 A, 1113.

HELICOPRION Karpinsky. Type *H. bessonowi* Karpinsky.

Karpinsky, A. P. 1899 A.

Abel, O. 1904 B, 745.

1908 D, (208).

1912 F, 567, fig. 440

1919 A, 139, fig. 102.

1920 A, 331, fig. 525.

Eastman, C. R. 1900 F, 580.

1901 A, 795.

1901 H, 151.

1902 B, 56.

1903 B, 185.

1903 D, 282, 286.

1905 C, 405.

1913 B, 677.

1917 B, 655.

Eastman, Gregory and Matthew 1917 A, 117.

Fuchs, H. 1900 A, 5.

Goodrich, E. S. 1909 A, 147, fig. 108.

Hay, O. P. 1907 A, 23.

1909 C, 50.

1912 A, 31.

Jaekel, O. 1900 A, 145.

Jordan, D. S. 1905 A, i, 529; ii, 574.

1920 B, 487.

1923 A, 96

Karpinsky, A. P. 1902 A, 205, pl. C, text-figs.
7-9

1911 A, 1105, figs. 1-5.

1912 A, 69 fig. 2.

1915 A, 117

Karpinsky, A. P. 1916 A, 701.

1922 A, 369, figs. 1-3.

1922 B, 379.

1925 A, 127, figs. 5, 6.

Kemna, A. 1902 A, 233.

Klaatsch H. 1901 A, 429

Koken, E. 1901 A, 225, fig. 1.

Newton, E. T. 1917 A, 6

Pompeckj, J. F. 1913 A, 1127, fig. 29

Priem, F. 1900 B, 121, figs. 1, 3.

Renevier, E. 1900 A, vi

Sauvage, H. E. 1901 D, 69.

Schlosser, M. 1917 A, 134

Schoenichen, W. 1900 A, 503

Smoens, G. 1902 A, 235, figs. 2, 3, 6.

Van den Broeck, E. 1902 A, 215.

Van de Wiele, C. 1902 A, 245

Woodward, A. S. 1900 F, 33.

1902 A, 230

1904 C, 189, fig. 3

1915 B, lxvi

1917 D, 6

1921 B, 34

1922 C, 68, fig. 65.

1924 A, 111, 112, fig. 4.

Zittel and Brodh. 1911 A, 59

Zittel and Schlosser 1923 A, 63, fig. 104.

No species of this genus is yet known from
N America

LISSOPRION Hay. Type *L. ferrieri* Hay.

Hay, O. P. 1907 A, 23.

Abel, O. 1912 F, 567.

1919 A, 139.

Hay, O. P. 1909 C, 52, 57.

Jordan, D. S. 1923 A, 96.

Karpinsky, A. P. 1911 A, 1117.

1912 A, 92.

Lydekker, R. 1910 F, 676.

Pompeckj, J. F. 1913 A, 1126.

Zittel and Koken 1911 A, 59.

Zittel and Schlosser 1923 A, 64.

Lissoprion ferrieri Hay.

Hay, O. P. 1907 A, 22, fig.

Abel, O. 1912 F, 568.

Hay, O. P. 1909 C, 52, pls. xiv, xv, text-fig. 7.

Hussakof L. 1908 A, 49.

Karpinsky, A. P. 1911 A, 1118, figs. 5, 6

1912 A, 82, figs. 4-6

Lambe, L. M. 1917 E, 294.

Permian-carboniferous; Idaho

Lissoprion sp. indet.

Lambe, L. M. 1917 E (This genus?).

Upper Pennsylvanian (Banff); Alberta.

Superfamily HEXANCHOIDÆ, new form.

Hay, O. P. 1902 A, 300 (Hexanchoides).

Ardit, T. 1923 A, 483 ("notidanoiden").

Fowler, H. W. 1911 A, 23 (Notidani).

Garman, S. 1913 A, 11 (Hexanchoides).

Gill, T. 1882 A, 967 (Opistharthri).

Gill, T. 1885 A, lxiv (Opistharthri).

1905 A, 657 (Diplospondyli. Opistharthri).

Goodrich, E. S. 1909 A, 139 (Notidani).

Gregory, W. K. 1907 D, 440 (Diplospondyli).

Jaekel, O. 1911 A, 61 (Notidani).

- Pompeckj, J. F. 1913 A, 1124 (Notadanoiden).
 Jordan, D. S. 1905 A, 1, 523; 11, 583 (Notidani).
 1907 B, 184 (Notidani).
 1923 A, 97 (Notidani, Opistharthri).
 Parker and Haswell 1897 A, 156 (Protoselachii).
 Regan, C. T. 1906 A, 722, 739 (Notidanoiden);
 740 (Hexanchoiden).
 Rauther, M. 1913 A, 1097 (Notidanoiden).

HEXANCHIDÆ Gill.

- Unless otherwise indicated, the authors, as cited, use for this family the name Notidanidæ.
 Hay, O. P. 1902 A, 300 (Hexanchidæ).
 Abel, O. 1919 A, 120.
 Allis, E. P. 1913 A, 323.
 1922 A, 152.
 1923 A, 47.
 1923 B, 167.
 Arldt, T. 1907 D, 283.
 1923 A, 483 ("hexanchiden").
 Beer, G. R. 1926 A, 275 (Notidani).
 Bonaparte, C. L. 1840 A, 45 (Notidani).
 Braus, H. 1901 A, 180 ("notidaniden").
 1904 A, 414 ("notidaniden").
 1906 B, 557 ("notidaniden").
 Bridge, T. W. 1904 A, 442.
 Chapman, F. 1918 A, 4.
 Cope, E. D. 1891 N, 17 (Hexanchidæ).
 Cunningham, J. T. 1912 A, 246.
 Daniel, J. F. 1916 A, 349 ("notidanid sharks").
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 133 (Notidani).
 Filatoff, D. 1907 A, 309.
 Fitzinger, L. J. 1873 A, 56 (Notidani).
 Fowler, H. W. 1911 A, 23 (Hexanchidæ).
 Fuchs, H. 1907 C, 27 ("notidaniden").
 Fuirbringer, K. 1903 A, 361.
 Garman, S. 1913 A, 2, 11 (Hexebranchidæ).
 Gaupp, E. 1898 B, 860 ("notidaniden").
 1905 D, 868 ("notidaniden").
 Gegenbaur, C. 1870 C, 402 ("notidaniden").
 Gill, T. 1905 A, 658 (Hexanchidæ).
 Goodey, T. 1910 A, 550, 560.
 Goodrich, E. S. 1909 A, 143.
 Haswell, W. A. 1884 A, 112.
 Hay, O. P. 1901 B, 67 (Hexanchidæ).
 Hilzheimer, M. 1913 A, 469.
 Hoernes, R. 1886 A, 541.
 Huber, O. 1901 A, 600.
 Koken, E. 1904 A, 305 ("notidaniden").
 Imms, A. D. 1905 A, 44.
 Jordan, D. S. 1905 A, 1, 524; 11, 574 (Hexanchidæ).
 1907 B, 185, 758 (Hexanchidæ).
 1923 A, 97 (Hexanchidæ).
 Jordan and Gilbert 1882 A, 34, 62.
 KINGSLEY, J. S. 1885 A, 74 (Notidanidæ, Hexanchidæ).
 Krall, A. 1908 A, 529 (Hexanchidæ).
 Lakjer, T. 1927 A, 281.
 Lawley, R. 1877 A, 62 (Squalidi).
 Leigh-Sharp, W. H. 1926 A, 338.
 Leunis and Ludwig 1883 A, 786.
 Mayer, P. 1886 A, 273, 274.
 Meek, A. 1916 A, 41 (Hexanchidæ).
 Osburn, R. C. 1907 A, 425.
 Parker and Haswell 1897 A, 156.
 Rauther, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 722, 741 (Hexanchidæ).
 Ridewood, W. G. 1921 A, 313, 348, 394.
 Schlosser, M. 1917 A, 137, 139, 141, 145 ("notidaniden").
 Schmalhausen, J. J. 1913 A, 24.
 Sewertzoff, A. N. 1923 A, 399 ("notidaniden").
 1923 B.
 Stromer, E. 1912 A, 19.
 Tims, H. W. M. 1903 A, 133.
 Versluys, J. 1922 B, 100 (Notidani).
 Wallace, A. R. 1876 A, 11, 461.
 Woodward, A. S. 1921 B, 37.
 Zittel and Koken 1911 A, 49.
 Zittel and Schlosser 1923 A, 54.
 Zittel and Woodward 1902 A, 25.

HEPTANCHIAS Rafinesque. Type *Squalus cinereus* Gmelin.

- Hay, O. P. 1902 A, 300.
 Allis, E. P. 1909 A, 202 (Heptanchus).
 1913 A, 325 (Hexanchus, Heptanchus).
 1914 A, 361 (Hexanchus, Heptanchus).
 1915 A (Hexanchus, Heptanchus).
 1919 C, 257 (Heptanchus).
 1922 B, 261 (Heptanchus).
 1923 A, 41 (Hexanchus, Heptanchus).
 1923 B (Hexanchus, Heptanchus).
 Ameghino, F. 1906 A, 186 (Notidanus).
 Anthony, R. 1913 A, 243 (Hexanchus).
 Baehr, W. B. 1906 A, 630 (Heptanchus, Hexanchus).
 Bardeleben, K. 1906 A, 138 (Hexanchus).
 Bassani, F. 1901 A, 175 (Notidanus).
 Bassani, F. 1891 A, 42 (Notidanus).
 1901 B, 175, pls. xxii-xxiv.
 Beer, G. R. 1926 A, 276 (Heptanchus).
 Braus, H. 1904 A, 393, 418, figs. 5, 10, 11, 13 (Heptanchus).
 1906 A, 225 (Heptanchus).
 1906 B, 545, fig. 1 (Heptanchus).
 1907 A, 249 (Hexanchus, Heptanchus).
 Bridge, T. W. 1904 A, 443, 748 (Notidanus).
 Briquel, P. 1898 A, 13 (Heptanchus).
 Bronn, H. G. 1848 B, 817 (Notidanus).
 1849 A, 641 (Notidanus).
 Carter, J. T. 1905 A, 133 (Heptanchus).
 Chapman, F. 1918 A, 4 (Notidanus).
 Collinge, W. E. 1894 A, 503 (Heptanchus).

- Cope, E. D. 1891 N, 16, fig. 7 (Hexanchus).
- Daniel, J. F. 1916 A, 349, pls. xxvii-xxix, text-figs. A-H (Heptanchus).
- 1922 A, many figures (Hexanchus, Heptanchus).
- Davidoff, M. 1879 A (Heptanchus).
- Dohrn, A. 1884 A, 142 (Hexanchus).
- Druner, L. 1906 A, 7 (Heptanchus).
- Duméril, A. 1856 A, 123 ("griset").
- Eastman, C. R. 1904 H, 77.
- Edgeworth, F. H. 1925 A, 234.
- 1926 A, 177, 189, fig. 3 (Heptanchus, Hexanchus).
- Emer, G. H. T. 1901 A, 254 (Heptanchus).
- Fahrenheit, C. 1915 A, 396, figs. 1-3 (Heptanchus).
- Fowler, H. W. 1911 A, 24.
- Frassetto, F. 1915 A, 45, figs. 26, 58 (Eptanchus).
- Furbringer, K. 1903 A, 361 (Heptanchus, Hexanchus).
- 1904 B, 465, figs. 11, 14, 15 (Heptanchus).
- Garman, S. 1913 A, 21.
- Gaupp, E. 1898 B, 811, 857 (Hexanchus, Heptanchus).
- 1905 D, 877, fig. 4 (Hexanchus, Heptanchus).
- 1913 A, 8, fig. 1 (Heptanchus).
- Gegenbaur, C. 1870 C, 402 (Heptanchus).
- 1871 B, 497, pl. xiii (Hexanchus).
- Gibian, A. 1912 A, 61 (Heptanchus).
- Giebel, C. G. 1855 A, 115 (Notidanus).
- Goodey, T. 1910 A, 545 (Heptanchus).
- Goodrich, E. S. 1901 A, 312, fig. A (Heptanchus).
- 1909 A, 511, figs. (Heptanchus, Hexanchus, Notidanus).
- Gregory, W. K. 1904 A, 55 (Notidanus), 64, pl. 1, fig. 4 (Heptanchus).
- Hanson, F. B. 1919 B, 45, fig. 1 (Hexanchus).
- Haswell, W. A. 1885 B, 381, pl. x (Heptanchus).
- Hawkes, O. A. M. 1905 A, 81 (Heptanchus, Hexanchus).
- Hay, O. P. 1901 B, 67 (Hexanchus).
- Heilprin, A. 1887 A, 297, 300 (Notidanus).
- Hoffman, L. 1912 A, 280 (Hexanchus, Heptanchus).
- Huber, O. 1901 A, 600, pl. xxvii (Hexanchus).
- Huxley, T. H. 1876 E, 105 (Hexanchus, Heptanchus, Notidanus).
- Imms, A. D. 1905 A, 44 (Heptanchus).
- Jaekel, O. 1906 A, 9, fig. 1 (Heptanchus).
- 1911 A, 62, figs. 64-66 (Notorhynchus).
- Jordan, D. S. 1905 A, i, 542, ii, 574 (Heptanchus, Hexanchus).
- 1907 B, 185 (Heptanchus, Hexanchus).
- 1910 B, 181.
- 1917 A, 78.
- 1923 A, 97 (Hexanchus, Heptanchus, Heptanchus).
- Jordan and Evermann 1917 A, 78 (Heptanchus, Hexanchus).
- Jordan and Gilbert 1882 A, 34, 62.
- Jordan and Hannibal 1923 A, 32 (Heptanchus, Hexanchus, Notorhynchus).
- Kaer, J. 1924 A, 89 (Hexanchus, Heptanchus).
- Kingsbury, B. F. 1926 A, 85, 105 (Heptanchus, Hexanchus).
- Kingsley, J. S. 1894 A, 637 (Hexanchus).
- Kingsley, J. S. 1896 A, 142 (Heptanchus).
- 1912 B, 65, fig. 64 (Heptanchus).
- 1925 A, 65, 87, 224, figs. 89, 90, 238, 247 (Heptanchus); 221 (Hexanchus).
- Klaatsch, H. 1890 A, 110 (Hexanchus).
- Krall, A. 108 A, 529 (Heptanchus, Hexanchus).
- Lahille, F. 1913 A, 25, pls. viii, ix, text-figs. 1-3.
- Lakjer, T. 1927 A, 278 (Notidanus).
- Lawley, R. 1875 B, 57-76, pls. i-iv.
- Leigh-Sharpe, W. H. 1926 A, 338 (Notidanus, Hexanchus).
- Lerche, M. 1902 B, 101 (Notidanus).
- 1905 A, 110.
- 1906 C, 418 (Notidanus).
- 1910 D, 254, fig. 70 (Notidanus).
- Leunis and Ludwig 1883 A, 786 (Notidanus).
- Leydig, F. 1852 A, 1.
- Luther, A. 1909 A, 10, fig. 6 (Heptanchus).
- Miklouho-Maclay, N. 1879 A, 321 (Notidanus).
- Mner, R. W. 1925 A, 195 (Hexanchus, Heptanchus).
- Mivart, St. G. 1878 B, 311, 331 (Notidanus).
- Müller and Henle 1837 A, 398 (Hexanchus, Heptanchus).
- 1838 A, 88 (Notidanus).
- Norman, E. W. 1926 A, 441, fig. 55 (Heptanchus).
- Osborn, R. C. 1907 A, 421 (Heptanchus).
- 1907 B, 182 (Notidanus).
- Owen, R. 1845 B, 29 (Notidanus).
- 1848 B, 96 (Heptanchus).
- 1866 A, 37 (Heptanchus).
- Parker and Bettany 1877 A, 89 (Notidanus).
- Parker and Haswell 1897 A, 161, fig. 789 (Hexanchus).
- Pompeck, J. F. 1913 A, 1124 (Heptanchus, Hexanchus).
- Priem, F. 1908 B, 25, 94 (Notidanus).
- Probst, J. 1886 B, 303 (Hexanchus, Heptanchus).
- Rabner, A. 1925 A, 560, fig. 1 (Heptanchus).
- Rabl, C. 1892 A, 106 (Hexanchus).
- 1901 A, 477, figs. 4, 17 (Heptanchus).
- Rauter, M. 1913 A, 1063, figs. 7, 11 (Heptanchus).
- Regan, C. T. 1906 A, 722 (Hexanchus, Heptanchus).
- Reis, O. M. 1893 A, 501 (Notidanus).
- Reynolds, S. H. 1897 A, 31, 63, 114, 121, fig. 17 (Heptanchus); 31, 63, 121 (Hexanchus).
- Ridewood, W. G. 1895 B, 429 (Notidanus).
- 1896 A, 382, fig. 3 (Notidanus).
- 1899 A, 49 (Heptanchus).
- 1921 A, 326, 348, 394, figs. 5, 6 (Hexanchus).
- Roth, W. 1911 A, 531 (Hexanchus, Heptanchus).
- Sagenhehl, M. 1884 A, 100 (Heptanchus).
- Sauvage, E. 1867 A, 118 (Notidanus).
- Schmalhausen, J. J. 1912 A, 580 (Heptanchus).
- Seecorv, S. 1911 A, 8, pl. 1 (Heptanchus).
- Semon, R. 1901 B, 182 (Heptanchus).
- Sewertzoff, A. N. 1923 B, fig. 2 (Heptanchus, Hexanchus).
- 1926 B, 577 (Heptanchus).
- Smith, H. M. 1916 A, 349, fig. (Hexanchus).
- Steinhard, O. 1903 A, 6 (Heptanchus).
- Stensio, E. A. 1925 A, 70, 127 (Heptanchus).
- 1925 B, 140 (Heptanchus).

- Stromer, E. 1925 A, 19 (Hexanchus, Heptanchus).
 VanWyhe, J. W. 1905 B, 320 (Heptanchus).
 Versluys, J. 1922 B, figs. 1, 4, 5, 7 (Heptanchus, Hexanchus).
 White, P. J. 1895 B, 222, figs. 1, 2.
 1905 A, 320 (Heptanchus).
 Winckler, T. C. 1876 A, 12 (Notidanus).
 Woodward, A. S. 1889 I, 6 (Notidanus).
 1891 E, 65 (Notidanus).
 1912 A (1911), 222 (Notidanus).
 1915 B, lxx.
 1921 A, 179 (Notidanus).
 Zittel and Koken 1911 A, 49 (Notidanus).
 Zittel and Schlosser 1923 A, 54, figs. 29, 59, 73, 74 (Notidanus).
 Zittel and Woodward 1902 A, 25 (Notidanus).

NOTIDANION Jordan and Hannibal.

- Jordan and Hannibal* in Jordan, D. S. 1923 A, 97.
Jordan and Hannibal 1923 A, 34.

Notidanion boreale Jordan and Hannibal.

- Jordan and Hannibal* 1923 A, 34, 61, pl. ii, fig. 9.
 Oligocene (San Lorenzo); Washington.

Notidanion primigenium (Agassiz).

- Hay, O. P. 1902 A, 300 (Heptanchus? primigenus, H? plectrodon).
 Bassani, F. 1891 A, 43, pl. ii, figs. 21, 22 (Notidanus).
 1901 A, 178 (Notidanus).
 Chapman, F. 1918 A, 5, pl. vi, fig. 6 (Notidanus).
 Eastman, C. R. 1904 H, 77, pl. lxxix, fig. 6 (Notidanus, N plectrodon a syn.).
 Fowler, H. W. 1911 A, 24 fig. 1 (Heptanchus).
 Gervais, P. 1852 A, explan. pl. lxxiv (Notidanus).

GYROPLEUROIDUS Gill. Type *Cestracion francisci* Girard.

- Gill, T. 1862, Proc. Acad. Nat. Sci. Phila., 469.
 Jordan, D. S. 1919 B, 317.
 Jordan and Evermann 1896 A, 20.
 Jordan and Gilbert 1882 A, 32 (Gyrolepurodus), 375 (Heterodontus).
 Jordan and Hannibal 1923 A, 32.
 Regan, C. T. 1908 D, 494.
Gyrolepurodus francisci (Girard).
 Girard, C. F. 1854, Proc. Acad. Nat. Sci. Phila., 196 (Cestracion).

STRONGYLISCUS Jordan. Type *S. robustus* Jordan.

- Jordan, D. S.* 1925 B, 7.

Heptanchias andersoni Jordan.

- Jordan, D. S.* 1907 A, 101, fig. 3.
 Anderson, F. M. 1911 A, 101.
 Jordan, D. S. 1907 A, 102, 119, fig. 4d (Chiloscyllum sp.).
 1910 B, 181.
 Jordan and Beal 1913 A, 246 (H. andersoni); 246, 253, fig. b (*Squatina lerichei*).
 Jordan and Gilbert 1919 A, 23 (*Squatina lerichei*).
 Jordan and Hannibal 1923 A, 34, 62, pl. ii, figs. 1-2; dd, ee.
 Leriche, M. 1908 C, 303 (Notidanus primigenus); 305 ("Squatina").
 Miocene; California.

Type *Notidanus primigenus* Agassiz.

- Gervais, P. 1859 A, 520, pl. lxxiv, figs. 9, 10 (Notidanus).
 Jaekel, O. 1895 E, 33, pl. ii, fig. 22 (Notidanus).
 Jordan, D. S. 1910 B, 181 (Notidanus).
 1923 A, 97 ("Notidanus").
 Jordan and Hannibal 1923 A, 36.
 Lawley, R. 1875 B, 66, pl. i, figs. 1, 5 (Notidanus).
 Leriche, M. 1905 A, 207, fig. 62 (Notidanus).
 1906 A, 296 (Notidanus).
 1906 B, 352 (Notidanus).
 1906 C, 420, fig. 71 (Notidanus).
 1910 D, 257, pl. xii, text-figs. 71, 72.
 Priem, F. 1906 A, 196, pl. viii, figs. 1, 2 (Notidanus).
 1912 A, 217, 225, pl. vi, fig. 34, text-figs. 17-19 (Notidanus).
 1914 A, 121, pl. iii, fig. 11 (Notidanus).
 Shattuck, G. B. 1904 A, xvi (Heptanchias).
 Woodward, A. S. 1889 I, 6 (Notidanus).
 Zierler, F. E. 1905 A, 511 (Heptanchias).
 Miocene, New Jersey: Miocene (Calvert); Maryland: Eocene?; New Jersey: Upper Eocene and Miocene; Europe.

Cestracion francisci Girard.

- Gill, T. 1862, Proc. Acad. Nat. Sci. Phila., 492.
 Günther, A. C. 1870 A, 416 (Cestracion).
 Jordan and Evermann 1896 A, 20.
 Jordan and Gilbert 1883 A, 31.
 Jordan and Hannibal 1923 A, 32, pl. iv, fig. j.
 Miklouho-Maclay and Macleay 1879 A, p. 315, pl. xxvi (Heterodontus).
 Recent, Coast of California: Pleistocene or Recent?, California.

Type *S. robustus* Jordan.

- Strongyliscus robustus** Jordan.
Jordan, D. S. 1925 B, 7, pl. iv.
 Miocene (Monterey); California.

LAMNOIDÆ, new form.

- Hay, O. P. 1902 A, 301 (Galeoides, in part).
 Garman, S. 1913 A, 10 (Carcharoides, Isuroides).
 Gill, T. 1873 F, 12 (Lamnoidea).

- Jordan, D. S.* 1923 A, 99 (Lamnoidea).
 Regan, C. T. 1906 A, 723 (Galeoides, in part).

CARCHARIIDÆ Jordan and Gilbert.

- Jordan and Gilbert 1882 A, 27 (Carchariidæ); 62 (Odontaspidæ).
 Hay, O. P. 1902 A, 301 (Carcharinae).
 Allis, E. P. 1923 B, 144.
 1926 B, 338.
 Arldt, T. 1923 A, 484 ("odontaspiden").
 Garman, S. 1913 A, 23 (Carcharidæ).
 Gill, T. 1872 C, 24 (Odontaspidæ).
 1905 A, 658 (Odontaspidæ, Carchariidæ).
 Gregory, W. K. 1907 D, 447.
 Hussakof, L. 1909 A, 262 (Odontaspidæ).
 Jordan, D. S. 1905 A, i, 534 (Odontaspidæ).
 1907 B, 191, 758 (Odontaspidæ).
 1923 A, 99 (Carcharidæ, Odontaspidæ).
 Jordan and Hannibal 1923 A, 45.
 Leigh-Sharpe, W. H. 1926 A, 315, 339.
 Radcliffe, L. 1916 A, 243, 244.
 Regan, C. T. 1906 A, 723, 741, 744 (Odontaspidæ).
 Ridewood, W. G. 1921 A, 351, 355, 395 (Odontaspidæ).

ODONTASPIS Agassiz. Type *O. ferox* Agassiz.

- Hay, O. P. 1902 A, 301 (Carcharias).
 Abel, O. 1919 A, 121, 123, figs. 79, 82.
 Agassiz, L. 1874 A, 130.
 Ameghino, F. 1906 A, 186.
 Braus H. 1901 B, 191.
 Bridge, T. W. 1904 A, 451.
 Bronn, H. G. 1848 A, 218 (Carcharias).
 1848 B, 835.
 1849 A, 642; 645 (Carcharias).
 Chapman, F. 1918 A, 10.
 Coulon, L. 1903 A, 124.
 Cunningham, J. T. 1897 A, 496 (Carcharias).
 Daniel, J. F. 1922 A, figs. 14, 127.
 Dense, A. B. 1916 A, 448.
 Dollo, L. 1904 C, 48.
 Duméril A. 1856 A, 132.
 Eastman C. R. 1902 B, 56 (Carcharias).
 1904 H, 78, 79.
 Fürbringer, K. 1903 A, 399.
 Garman, S. 1913 A, 3, 23 (Carcharias).
 Gaupp, E. 1898 B, 816, 862 (Carcharias).
 1905 D, 874.
 Gibian A. 1912 A, 61.
 Giebel, C. G. 1855 A, 116.
 Gill, T. 1905 A, 658.
 Hussakof, L. 1909 A, 259 (Carcharias).
 Ishiwara, Y. 1921 A, 69, 74 (Carcharias).
 Jacobshagen, E. 1920 A, 92 (Carcharias).
 1923 A, 176 (Carcharias).
 Jaekel, O. 1895 E, 29.
 Jordan, D. S. 1905 A, ii, 534.
 1907 B, 191, 199.
 1919 B, 184 (Odontaspis a syn.).
 1923 A, 99, 100 (Carcharias).
 1928 A, 1 (Carcharias).
 Jordan and Beal 1913 A, 249 (Carcharias).
 Jordan and Evermann 1917 A, 77, 97 (Carcharias).
 Jordan and Gilbert 1882 A, 27 (Carcharias).
 Jordan and Hannibal 1923 A, 45.
 Leigh-Sharpe, W. H. 1926 A, 340.
 Leriche, M. 1905 A, 115.
 Meek, A. 1916 A, 38 (Carcharias).
 Owen, R. 1845 B, 28.
 Priem, F. 1907 B, 413.
 1908 B, 77, 95, 122, fig. 60.
 Radcliffe, L. 1916 A, 243, fig. 1 (Carcharias).
 Regan, C. T. 1906 A, 723.
 Reynolds, S. H. 1897 A, 107, fig. 14.
 Roth, W. 1911 A, 540, pls. vi, viii.
 Schlesinger, G. 1909 A, 142 (Carcharias).
 Schmalhausen, J. J. 1913 A, 21 (Carcharias).
 Stefano, G. 1912 A, 378.
 Stromer, E. 1905 C, 160.
 Weiler, W. 1922 A, 88.
 Woodward, A. S. 1889 I, 7.
 1898 B, 48.
 Zittel and Koken 1911 A, 52.
 Zittel and Schlosser 1923 A, 57.
 Odontaspis clavata (Agassiz).
 Hay, O. P. 1902 A, 302 (Lamna).
 Anderson, F. M. 1911 A, 101 (Lamna).
 Blake, W. P. 1857 A, 172 (Lamna).
 1866 A, 290 (Lamna).
 Jordan, D. S. 1907 A, 106, fig. 8 (Lamna).
 1910 B, 181 (Lamna).
 Jordan and Beal 1913 A, 245, 249 (Carcharias).
 Jordan and Gilbert 1919 A, 21 (Carcharias).
 Jordan and Hannibal 1923 A, 46, 62, pl. ii, figs. a, h. (Carcharias).
 Leriche, M. 1908 C, 303 (O. cuspidata).
 Miocene (Monterey); California.
 Odontaspis contortidens (Agassiz).
 Agassiz, L. 1843 B, 294, pl. xxxvii, figs. 17-23 (Lamna contortidens); figs. 33, 34 (L. acutissuma).
 Hay, O. P. 1902 A, 301 (Carcharias).
 Agassiz, L. 1854 A, 4 (Lamna, Odontaspis).
 Chapman, F. 1918 A, 11, 31, text-fig. 1 (Carcharias).
 Coulon, L. 1903 A, 125.
 Jaekel, O. 1895 E, 31, pl. ii, figs. 11-18 (Carcharias).
 Leriche, M. 1900 A, 192.
 1906 C, 413.
 1907 B, 341 (O. acutissuma).
 1910 D, 261, pl. xiv, figs. 1-27, text-figs. 73-76 (O. acutissuma).
 Newton, E. T. 1891 A, 107, pl. ix, figs. 17a, 17b (Carcharias).
 Priem, F. 1912 A, 214, 218, 226, 238, pl. iv, figs. 18-25.
 Stefano, G. 1901 A, 556, pl. x, figs. 9-12 (Carcharias).
 1912 A, 389 (Carcharias).
 Eocene to Pliocene; Europe: Eocene?; Alabama, South Carolina.
 Odontaspis cuspidata (Agassiz).
 Hay, O. P. 1902 A, 302 (Lamna).
 Ameghino, F. 1906 A, 177, 259; pl. i, fig. 9.
 1908 B, 492.

- Bassani, F. 1891 A, 25, pl. 1, fig. 14; pl. u, figs. 10, 13, 16, 17.
- Berry, E. W. 1916 A, 351, pl. viii, figs. 8, 9 (Lamna).
- Chapman, F. 1918 A, 12.
- Clark and Miller 1912 A, 117, 118.
- Coulon, L. 1903 A, 122 (Carcharias).
- Dall, W. H. 1894 A, 297 (Lamna).
- Eastman, C. R. 1901 B, 105; pl. xiv, figs. 1a, 1b, 6a, 6b.
- 1904 H, 78; pl. xxx, fig. 1.
- Fowler, H. W. 1911 A, 43; figs. 12-15 (Lamna).
- Hay, O. P. 1922 B, 3 (Lamna).
- Ishiwara, Y. 1921 A, 70, pl. xii, figs. 12-21 (Carcharias).
- Jordan, D. S. 1910 B, 181 (Carcharias).
- Jordan and Beal 1913 A, 249.
- Leriche, M. 1902 A, 22.
- 1906 C, 413 (Lamna, *Odontaspis*).
- 1910 B, 328, pl. iii, figs. 9-12.
- 1910 D, 268, pl. xv, figs. 1-21.
- 1913 A, 83.
- 1926 A, 15.
- Lyell, C. 1845 C, 549, 560 (Lamna).
- Priem, F. 1908 B, 78.
- 1911 B, 330, 336.
- 1912 A, 214, 217, 226, 237; pl. vi, figs. 10-17.
- Sellards, E. H. pl. vii, figs. 1-5, 7, 9 ("shark").
- Shattuck, G. B. 1904 A, xcvi (Carcharias).
- Stanton, T. W. 1920 A, 49, pl. ix, figs. 12, 13 (Lamna).
- Stefano, G. 1912 A, 389, pls. xii, xiv.
- 1912 B, 46, pls. i, ii.
- Stromer, E. 1905 C, 171, 178; pl. xv, figs. 26, 27.
- Weiler, W. 1922 A, 88, 104.
- Woodward, A. S. 1889 I, 7, figs. 12-14.
- Zittel and Schlosser 1923 A, 57, fig. 85 (Lamna).
- Upper Cretaceous (Manasquan, etc.); New Jersey (Lance); South Dakota: (Matawan, Monmouth); Maryland: Eocene, New Jersey: Eocene (Nanjemoy, Aquia); Maryland: Miocene (Calvert); Maryland: Miocene (Kirkwood); New Jersey: Miocene (Chesapeake); Massachusetts: Eocene, Miocene; Europe.
- Odontaspis cuspidata hopei* (Agassiz).**
- Hay, O. P. 1902 A, 302 (Lamna *cuspidata*, part).
- Coulon, L. 1903 A, 123 (Lamna *hopei*).
- Leriche, M. 1900 A, 192.
- 1905 A, 75, 119, 187, 208, 215.
- 1906 B, 350, 351, 352, 355.
- 1906 C, 416 (O. *hopei*).
- 1907 A, 354, pl. iii, fig. 4.
- 1908 A, 238, pl. iv, figs. 1-12.
- Priem, F. 1906 A, 197; pl. viii, figs. 3-10.
- Stefano, G. 1912 A, 384, pls. xii, xiv.
- 1912 B, 45, pls. i, ii.
- Stromer, E. 1905 C, 171, 178 (O. *hopei*).
- Woodward, A. S. 1889 I, 7 (This species?).
- Eocene; Europe, Georgia, Alabama, Virginia, Kansas, S. Carolina: Miocene; Maryland, N. Carolina.
- Odontaspis duplex* Agassiz.**
- Hay, O. P. 1902 A, 302 (Carcharias).
- Tertiary of Alabama?
- Odontaspis elegans* (Agassiz).**
- Hay, O. P. 1902 A, 303 (Lamna).
- Ameghino, F. 1906 A, 185, 259, 463.
- Berry, E. W. 1916 A, 350, pl. viii, figs. 5-7 (Lamna).
- Chapman, F. 1918 A, 11, pl. iii, fig. 1.
- Clark and Miller 1912 A, 117, 118 (Carcharias).
- Coulon, L. 1903 A, 123 (Lamna).
- Eastman, C. R. 1901 B, 104; pl. xiv, figs. 2a, 2b, 2c, 3a, 3b, 3c.
- 1904 H, 79; pl. xxx, figs. 2, 3.
- Fowler, H. W. 1911 A, 48; figs. 16, 17 (Lamna).
- Gervais, P. 1852 A, explan. pl. lxxv, fig. 3 (Lamna).
- 1859 A, 520, pl. lxxv, fig. 3 (Lamna).
- Giebel, C. G. 1855 A, 116, pl. xlvii, fig. 16 (Lamna).
- Hopkins, F. V. 1871 A, 13 (Lamna).
- Humphreys, J. 1908 A, 14, pl. i, fig. 2.
- Jordan and Hannibal 1923 A, 46.
- Leriche, M. 1900 A, 191.
- 1902 A, 21 (= *Otodus macrotus*).
- 1906 C, 414.
- Mantell, G. A. 1844 A, 624, fig. 130 (Lamna).
- Miller, B. L. 1911 A, 103.
- 1912 A, 2.
- Newton, E. T. 1891 A, 107, pl. ix, figs. 16a, 16b.
- Priem, F. 1896 B, 13 (Lamna).
- 1901 A, 483, pl. xi, figs. 27, 28.
- 1908 B, 78.
- Ridewood, W. G. 1896 A, 382, fig. 4.
- Rutot, A. 1875 A, 34 (Lamna).
- Shattuck, G. B. 1904 A, xcvi.
- Shattuck, Miller, and Bibbins 1907 A, 5.
- Stromer, E. 1905 C, 170 (Lamna).
- Winkler, T. C. 1876 A, 9 (Lamna).
- Woodward, A. S. 1889 I, 8, pl. i, figs. 15-17.
- Upper Cretaceous (Matawan, Monmouth); New Jersey: Eocene; Louisiana; Eocene (Aquia); Virginia, Maryland: Miocene; New Jersey: Miocene (Calvert); Maryland.
- Odontaspis littoralis* (Mitchill).**
- Mitchill, S. L. 1818, Amer. Monthly Mag., ii, 328 (Squalus).
- Jordan and Evermann 1896 A, 46 (Carcharias).
- Jordan and Gilbert 1882 A, 874.
- Leriche, M. 1906 C, 207 (Odontaspis *americanus*).
- Mitchill, S. L. 1815 A, 483 (Squalus *americanus*; not of Shaw).
- Said by Mitchill (op. cit., 1818) to be met with in digging wells in Richmond and as far up as Alexandria, Virginia.
- Odontaspis lomita* (Jordan and Hannibal).**
- Jordan and Hannibal 1923 A, 48, 63, pl. vi, figs. 1, c (Carcharias).
- Hay, O. P. 1927 D, 174 (Carcharias).
- Pliocene or Pleistocene (Lomita); California.
- Odontaspis macrota* (Agassiz).**
- Hay, O. P. 1902 A, 305 (Otodus).
- Chapman, F. 1918 A, 15, pl. iii, figs. 8, 9; pl. ix, figs. 6, 7 (Lamna *compressa*).

- Dollo, L. 1914 A, 290.
 Eastman C. R. 1901 B, 105, pl. xiv, figs. 4a, 4b.
 Leriche, M. 1901 A, 156, pl. v, figs. 13-15.
 1902 A, 11, 19.
 1905 A, 75, 120, 187, 200, 208, 215.
 1906 B, 350, 355.
 1906 C, 417 (Odontaspis); 418 (Otodus).
 1908 A, 242.
 1913 A, 78, pl. x, fig. 2.
 1926 A, 15.
 Priem, F. 1906 A, 198 (Lamna).
 1908 B, 79, pl. iv, fig. 7 (Lamna).
 Stefano, G. 1912 A, 376, pls. xii, xiv (Lamna.
 This species?)
 Stromer, E. 1903 A, 32, pl. i, fig. 8 (Lamna).
 1905 C, 171 (Lamna)
 Winkler, T. C. 1876 A, 9.
 Woodward, A. S. 1889 I, 8, pl. i, figs. 19, 20
 (Lamna)
 Eocene (Nanjimov and Aqua), Maryland:
 (Nanjimov); Virginia: Europe.

Odontaspis morricei (Jordan and Beal).

- Jordan and Beal 1913 A, 245, 249, fig. c. (Carcharias)
 Jordan and Gilbert 1919 A, 21 (Carcharias).
 Jordan and Hannibal 1923 A, 43, 62, pl. ii, fig. t, pl. iv, figs. a, b, c, pl. vi, fig. h (Xiphodolama)
 Miocene (Monterey); California.

Odontaspis sanctæ-crucis (Jordan and Hannibal).

- Jordan and Hannibal 1923 A, 48, 62, pl. iii, figs. d, k (Carcharias?)
 Miocene (Monterey), California

Odontaspis verticalis (Agassiz).

- Hay, O. P. 1902 A, 303 (Carcharias).
 Coulon, L. 1903 A, 122 (Lamna).
 Leriche, M. 1900 A, 182.
 1902 A, 23 (Lamna).
 1905 A, 75, 121, 188, 200, pl. vi, figs. 20-35 (Lamna).
 1906 B, 350, 352, 355.
 1906 C, 423, pl. ix, figs. 20-35 (Lamna).
 1908 A, 238 (Lamna, Odontaspis).
 Priem, F. 1908 B, 79 (Lamna).
 Stromer, E. 1903 A, 31, pl. i, figs. 10, 11 (Odontaspis).
 Eocene; Europe, Egypt. Eocene; South Carolina, Alabama

Odontaspis virgatula (Jordan and Hannibal).

- Jordan and Hannibal 1923 A, 46, 63, pl. iii, figs. t, u (Carcharias).
 Hay, O. P. 1927 D, 174 (Carcharias).
 Pliocene or Pleistocene (Lomita); California.

Odontaspis sp. indet.

- Dumble, E. T. 1920 A, 175 (Odontaspis). Eocene (Jackson); Texas.
 Gidley, J. W. 1927 E, 274 (Carcharias). Pleistocene; Florida.
 Hay, O. P. 1927 D, 274 (Carcharias). Pleistocene, Florida
 Jordan, D. S. 1907 A, 104, fig. 5 (Carcharias). Miocene, California.
 Sellards, E. H. 1915 D, 98, fig. 26 (Carcharias). Pliocene (Bone Valley); Florida.

MITSIKURINIDÆ Jordan.

- Jordan, D. S. 1898, Proc. Calif. Acad. Sci. (3), No. 6, 201.

- Jordan, D. S. 1923 A, 99

SCAPANORHYNCHUS A. S. Woodward. Type *S. lewisii* Davis.

- Woodward, A. S. 1889 D, 351 (To replace *Rhynchonathus* Davis, preoccupied).
 Ameghino, F. 1906 A, 186.
 Arlitt, T. 1923 A, 484.
 Chapman, F. 1918 A, 8.
 Garman, S. 1913 A, 23, 28.
 Hussakof, L. 1909 A, 257.
 Jordan, D. S. 1898, Proc. Calif. Acad. Sci. (3), Zool. vol. i, No. 6 (Mitsukurina).
 1920 C, 449.
 1923 A, 99.
 Leriche, M. 1902 A, 11.
 1902 B, 103.
 1906 C, 421.
 Priem, F. 1896 B, 13, pl. ii, figs. 1-8.
 1908 B, 39, fig. 15.
 Rudewood, W. G. 1921 A, 359, fig. 12.
 Woodward, A. S. 1889 D, 351.
 1899 E, 487.
 1912 A (1911) 210
 1921 A, 180.
 Zittel and Schlosser 1923 A, 57 (Mitsukurina a syn.).

Scapanorhynchus raphiodon (Agassiz).

- Hay, O. P. 1902 A, 303 (Lamna).
 Chapman, F. 1918 A, 10, pl. iii, figs. 2, 16.
 Coulon, L. 1903 A, 124 (Odontaspis).
 Fritsch, A. 1878 A, 10, text-fig. 17 (Lamna)
 Hennig, E. 1914 A, 308, pl. xxiii, fig. 7 (S. raphiodon)
 Leriche, M. 1902 B, 106, pl. iii, figs. 8-13.
 1906 C, 421.
 Priem, F. 1896 B, 15, pl. ii, figs. 1-6.
 1907 A, 403.
 1912 B, 258, 267.
 1913 A, 160.
 1914 C, 366, pl. x, figs. 8-10.
 Sauvage, E. 1867 A, 122 (Lamna).
 Tanner, V. M. 1925 A, 6, pl. i, figs. 1, 2.
 Woodward, A. S. 1889 D, 353.
 1912 A (1911), 211, pl. xiv, figs. 14-17.
 Cretaceous; Europe, India: Tertiary of Alabama?

Scapanorhynchus subulatus (Agassiz).

- Hay, O. P. 1902 A, 303 (Lamna).
 Ameghino, F. 1906 A, 177, pl. 1, fig. 7.
 1908 B, 487.
 Chapman, F. 1918 A, 8, 31, pl. iii, fig. 13; pl. v, figs. 6-10.
 Coulon, L. 1903 A, 125 (Odontaspis).
 Fritsch, A. 1878 A, 9, text-figs 15, 16 (Lamna)

- Leriche, M. 1902 B, 107, pl. iii, figs. 5-7.
 1906 C, 422.
 Priem, F. 1896 B, 15, pl. ii, figs. 7-10.
 1907 A, 463, 464.
 1912 B, 258, 267.
 1913 A, 160.
 Woodward, A. S. 1889 D, 336 (This genus?).
 1912 A (1911), 212, pl. xlv, figs. 18-21.
 Miocene?; Maryland?.

LAMNIDÆ Richardson.

- Richardson, J. 1846 A, 195.
 Hay, O. P. 1902 A, 301.
 Allis, E. P. 1913 A (Carcharidæ).
 Arldt, T. 1907 D, 184, 283.
 Bassani, F. 1891 A, 13.
 Bonaparte, C. L. 1840 A, 46 (Lamnini).
 Bridge, T. W. 1904 A, 450.
 Bronn, H. G. 1849 A, 781, seq. (Lamnoidei).
 Chapman, F. 1918 A, 8.
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Demse, A. B. 1916 A, 446.
 Dollo, L. 1889 F, 342.
 1904 C, 48.
 Fitzinger, L. J. 1873 A, 55 (Lamnæ).
 Fowler, H. W. 1911 A, 31.
 Garman, S. 1913 A, 31 (Isuridæ).
 Gaupp, E. 1905 D, 894 ("lamniden").
 Goodrich, E. S. 1909 A, 149.
 Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 67.
 Hoernes, R. 1886 A, 541.
 Huber, O. 1901 A, 617.
 Jacobshagen, E. 1923 A, 176 ("lamniden").
 Jaekel, O. 1895 E, 22.
 Jordan, D. S. 1905 A, i, 537; ii, 578.
 1907 B, 194, 758.
 1923 A, 99.
 Jordan and Gilbert 1882 A, 28.

- Jordan and Hannibal 1923 A, 45, 48.
 Kingsley, J. S. 1885 A, 79.
 Leigh-Sharpe, W. H. 1926 A, 340.
 Leriche, M. 1902 B, 103.
 1906 C, 273.
 Leunis and Ludwig 1883 A, 784.
 Mayer, P. 1886 A, 277 ("lamniden").
 Muller and Henley 1838 A, 36 (Lamnoidea).
 Priem, F. 1908 B, 25 ("lamnidés").
 Radcliffe, L. 1916 A, 247 (Isuridæ).
 Rauther, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 723, 741, 744.
 Ridewood, W. G. 1895 B, 429.
 1921 A, 355, 395.
 Roth, W. 1911 A, 538-543.
 Schlosser, M. 1917 A, 136, 139, 141 ("lamniden").
 Schmalhausen, J. J. 1913 A, 25.
 Stemmman, G. 1907 A, 401.
 Stromer, E. 1905 C, 167, 179.
 1912 A, 19.
 Tomes, C. S. 1898 B, 443.
 Wallace, A. R. 1876 A, ii, 460.
 Weiler, W. 1922 A, 88, 104.
 Woodward A. S. 1889 I, 7.
 1891 E, 62.
 1916 A, lxxiv ("lamnid sharks").
 1921 B, 38.
 Zittel and Koken 1911 A, 51.
 Zittel and Schlosser 1923 A, 57.

LAMNINÆ Gill.

- Gill, T. 1862 A, 368.
 Hay, O. P. 1902 A, 302.

- Goodrich, E. S. 1909 A, 150.

LAMNA Cuvier. Type *Squalus cornubicus* Gmelin.

- Hay, O. P. 1902 A, 302.
 Abel, O. 1909 D (225).
 1912 F, 422, 517.
 1915 A, 415.
 1920 A, 327, fig. 518.
 Agassiz, L. 1835 G, 187.
 Ameghino, F. 1906 A, 186.
 Arldt, T. 1923 A, 484.
 Bassani, F. 1891 A, 22.
 Braus, H. 1906 A, 186, fig. 187.
 Bridge, T. W. 1904 A, 451.
 Bronn, H. G. 1848 A, 625.
 1849 A, 643.
 Chapman, F. 1918 A, 13.
 Coulon, L. 1903 A, 122.
 Daniel, J. F. 1922 A, 101, fig. 98.
 Darton, N. H. 1908 A, 457.
 Demse, A. B. 1916 A, 442.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 124 ("lamie").
 Eastman, C. R. 1901 B, 103 (Odontaspis).

- Fowler, H. W. 1911 A, 42.
 Garman, S. 1913 A, 34.
 Giebel, C. G. 1855 A, 116.
 Goodrich, E. S. 1906 A, 345.
 1909 A, 511, figs.
 Haswell, W. A. 1884 A, 84.
 Hay, O. P. 1901 B, 67.
 Heilprin, A. 1887 A, 297, 300.
 Huber, O. 1901 A, 617, pl. xxvii.
 Jacobshagen, E. 1923 A, 176.
 Jordan, D. S. 1905 A, i, 534, 538.
 1907 B, 194.
 1917 A, 97.
 1923 A, 99.
 Jordan and Beal 1913 A, 249.
 Jordan and Evermann 1917 A, 97 ("Type *Squalus cornubicus* Bloch and Schneider").
 Jordan and Gilbert 1882 A, 29.
 Jordan and Hannibal 1923 A, 48, 50.
 Klatsch, H. 1890 A, 121.
 Leigh-Sharpe, W. H. 1921 A, 367, figs. 5-7.

- Leriche, M. 1906 C, 416 (Lamna); 419 (Odontaspis).
 Leunis and Ludwig 1883 A, 784.
 Mantell, G. A. 1844 A, 623.
 Muller and Henle 1838 A, 36.
 Osburn, R. C. 1907 B, 182.
 Owen, R. 1839 G, 211.
 1845 B, 24, 26, 28, pl. v, fig. 1.
 1868 A, 888.
 Priem, F. 1896 B, 13.
 1908 B, 41, 78.
 Probst, J. 1886 B, 312.
 Ridewood, W. G. 1896 A, 382, fig. 2.
 1921 A, 355, fig. 9.
 Roth, W. 1911 A, 538, pl. vii.
 Sauvage, E. 1867 A, 120.
 Schmalhausen, J. J. 1913 A, 21.
 Stannius, H. 1854 A.
 Stephan, P. 1900 A, 327.
 Stefano, G. 1912 A, 370.
 Stromer, E. 1905 C, 169.
 Terra, P. 1911 A, 200, fig. 48.
 Tomes, C. S. 1898 B, 444, 447, pl. xvii.
 1898 C, 345.
 Weidenreich, F. 1926 A, 46.
 Weiler, W. 1922 A, 88.
 Woodward, A. S. 1889 I, 10.
 1912 A (1911), 206.
 Zittel and Koken 1911 A, 52.
 Zittel and Schlosser 1923 A, 57, figs. 85-88.
- Lamna appendiculata Agassiz.**
 Hay, O. P. 1902 A, 304 (Otodus).
 Ameghino, F. 1906 A, 71, 178, pl. i, fig. 12.
 1908 B, 491.
 Chapman, F. 1918 A, 11, 14, text-figs. 2.
 Coulon, L. 1903 A, 126 (Otodus).
 Dollo, L. 1914 A, 290.
 Fowler, H. W. 1911 A, 54, figs. 20, 21 (Otodus).
 Fritsch, A. 1878 A, 5, text-figs. 5, 42 (Otodus).
 Gervais, P. 1852 A, explan. pl. lxxvi (Lamna acuminata Corax appendiculatus).
 1859 A, 524, pl. lxxvi (Lamna acuminata, Corax appendiculatus).
 Gidley, J. W. 1926 E, 16 (Otodus).
 Gorjanovič-Kramberger, D. 1891 A, 92, pl. vii, fig. 16.
 Hopkins, F. V. 1871 A, 13 (Otodus).
 Jordan and Beal 1913 A, 246, 250.
 Jordan and Hannibal 1923 A, 46.
 Lambe, L. M. 1904 C, 25, 37, 41.
 Leriche, M. 1902 A, 11.
 1902 B, 111, pl. iii, figs. 28-38.
 1906 B, 348, 350.
 1906 C, 411.
 1913 A, 78, pl. x, figs. 3-5.
 Lyell, C. 1844 A, 303.
 Priem, F. 1896 B, 14, pl. i, figs. 5-9.
 1907 A, 463, 464, figs. 2, 5.
 1908 B, 47, 69, pl. i, fig. 19, text-figs. 27, 28.
 1912 B, 259, 268.
 1913 A, 160.
 1914 C, 366, pl. x, fig. 11.
 Sauvage, E. 1867 A, 120 (Otodus).
 Spillman, W. 1863 A (Otodus).
- Stephenson, L. W. 1912 A, 127, 128, 130, 136, 138, 148, 149 (Otodus).
 Tanner, V. M. 1925 A, 6, pl. i, fig. 3.
 Upham, W. 1888 A, 603 (Otodus).
 Woodward, A. S. 1912 A (1911), 206, pl. xiv, figs. 3-7, text-figs. 63, 64.
 Zittel and Schlosser 1923 A, 57, fig. 86.
 Upper Cretaceous; California, British Columbia, New Jersey, North Carolina, Minnesota, Iowa. Eocene; Louisiana: Miocene; New Jersey.
- Lamna caurina Jordan and Hannibal.**
 Jordan and Hannibal 1923 A, 50, 61, pl. iii, figs. o, s.
 Oligocene (Lorenzo); Washington.
- Lamna crassidens Agassiz.**
 Hay, O. P. 1902 A, 302.
 Coulon, L. 1903 A, 123.
 Leriche, M. 1902 A, 32 (Odontaspis).
 1905 A, 75, 120, 187, 200, 208, pl. vi, figs. 13-19 (Odontaspis).
 1906 C, 413, pl. ix, figs. 13-19 (Lamna).
 Eocene and Miocene; Europe: Miocene; Virginia.
- Lamna gracilis Agassiz.**
 Hay, O. P. 1902 A, 303.
 Leriche, M. 1902 B, 108, pl. iii, fig. 14 (Scapanorhynchus).
 Sauvage, E. 1867 A, 120.
 Cretaceous; Europe: Eocene; South Carolina.
- Lamna macrorhiza Cope.**
 Hay, O. P. 1902 A, 303.
 Coulon, L. 1903 A, 125 (Odontaspis).
 Hussakof, L. 1908 A, 31.
 Leriche, M. 1902 B, 109, pl. iii, figs. 18-27 (Odontaspis).
 1906 B, 348 (Odontaspis).
 1910 A, 459 (Odontaspis).
 Priem, F. 1907 C, 49 (Scapanorhynchus).
 1908 B, 41, fig. 16 (Scapanorhynchus).
 1912 B, 259 (Scapanorhynchus).
 Upper Cretaceous (Niobrara); Texas or Kansas?: Cenomanian, Senonian; France.
- Lamna manitobensis Whiteaves.**
 Hay, O. P. 1902 A, 303.
 Lambe, L. M. 1904 C, 21, 36, 41.
 Tyrrell, J. B. 1892 A, 113.
 Cretaceous (Colorado); Manitoba.
- Lamna mudgei Cope.**
 Hay, O. P. 1902 A, 303.
 Fowler, H. W. 1911 A, 51, fig. 18.
 Gidley, J. W. 1926 E, 16.
 Upper Cretaceous (Niobrara); Kansas: ("Greensand No. 4"); New Jersey.
- Lamna ornata Agassiz.**
 Hay, O. P. 1902 A, 303.
 Blake, W. P. 1857 A, 152, figs. 1, 2.

Jordan, D. S. 1907 A, 107.

Jordan and Beal 1913 A, 250.

Jordan and Hannibal 1923 A, 46, 61, pl. iii, figs. v, w (Carcharias).

Miocene; California.

Lamna? quinquelateralis Cragin.

Hay, O. P. 1902 A, 303.

Cretaceous (Comanche); Kansas.

Lamna texana Roemer.

Hay, O. P. 1902 A, 303.

Fowler, H. W. 1911 A, 52, fig. 19.

Gidley, J. W. 1911 in Veatch and Stephenson 1911 A, 208.

Stephenson, L. W. 1912 A, 127, 130, 136, 138, 140, 143, 148, 149.

Upper Cretaceous; Texas, New Jersey; New Mexico (Ripley); Georgia.

Lamna sp. indet.

Hay, O. P. 1902 A, 304.

Bowen, C. F. 1915 A, 120. Upper Cretaceous (Hell Creek); Montana.

Brown, B. 1907 A, 342. Upper Cretaceous (Hell Creek); Montana.

Cannon, G. L. 1890 B, 213. Upper Cretaceous (Niobrara); Colorado.

Gidley, J. W. 1927 E, 274. Pleistocene; Florida.

Gilbert, G. K. 1875 A, 544.

Hay, O. P. 1923 A, 370.

Jordan, D. S. 1907 A, 107. Cretaceous (Chico); California.

Lee, W. T. 1917 A, 202. Upper Cretaceous (Mesaverde); New Mexico.

Sternberg, C. M. 1926 A, 104. Upper Cretaceous (Edmonton); Alberta.

Tuomey, M. 1848 A, 160, 163, 166, 180. Tertiary; South Carolina.

Worthen, A. H. 1890 A, 4, figs. 1-3. Skunk and Des Moines rivers, Iowa.

SPHENODUS Agassiz. Type *Lamna longidens* Agassiz.

Hay, O. P. 1902 A, 302.

Bronn, H. G. 1848 B, 1165.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1919 B, 214 (Preoccupied by *Sphenodon*).

Jordan, D. S. 1923 A, 99.

Schlosser, M. 1917 A, 136, 137 (Orthacodus).

Sphenodus rectidens Emmons.

Hay, O. P. 1902 A, 302.

Cretaceous; North Carolina.

LEPTOSTYRAX Willist. Type *L. bicuspidatus* Willist.

Hay, O. P. 1902 A, 304.

Jordan, D. S. 1923 A, 99.

Sauvage, H. E. 1901 F, 77.

Leptostyrax bicuspidatus Willist.

Hay, O. P. 1902 A, 304.

Cretaceous (Mentor); Kansas.

OTODUS Agassiz. Type *O. obliquus* Agassiz.

Hay, O. P. 1902 A, 304.

Ardt, T. 1907 D, 339.

1923 A, 484.

Bronn, H. G. 1848 B, 896.

1849 A, 643.

Coulon, L. 1903 A, 126.

Eastman, C. R. 1901 B, 106.

Fowler, H. W. 1911 A, 53.

Giebel, C. G. 1855 A, 116.

Hay, O. P. 1901 B, 67.

Heilmann, A. 1887 A, 300.

Humphreys, J. 1908 A, 14, pl. i, figs. 1, 3.

Jordan, D. S. 1905 A, i, 538.

1907 B, 195.

1919 B, 214 (Syn. of *Lamna*).

1923 A, 99.

Leriche, M. 1906 C, 419.

Owen, R. 1845 B, 28.

Praeger, F. 1896 B, 13.

1908 B, 48.

Probst, J. 1886 B, 308.

Sauvage, E. 1867 A, 119.

Stefano, G. 1912 A, 370.

Stromer, E. 1905 C, 169.

Terra, P. 1911 A, 200, fig. 50.

Winckler, T. C. 1876 A, 4.

Woodward, A. S. 1889 I, 10.

Otodus? apiculatus Agassiz.

Hay, O. P. 1902 A, 304.

Leriche, M. 1906 C, 411.

Eocene; South Carolina.

Otodus crassus Agassiz.

Hay, O. P. 1902 A, 304.

Chapman, F. 1918 A, 16, pl. iii, fig. 10; pl. vii, fig. 16 (*Lamna*).

Cretaceous; Europe, Alabama.

Otodus levis Gibbes.

Hay, O. P. 1902 A, 304.

Fowler, H. W. 1911 A, 57, fig. 22.

Eocene; South Carolina, New Jersey.

Otodus obliquus Agassiz.

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 178, 185, pl. ii, fig. 13 (*Lamna*).

1908 B, 492 (*Lamna*).

Clark and Miller 1912 A, 117, 118.

Coulon, L. 1903 A, 126.

Eastman, C. R. 1901 B, 106, pl. xv, figs. 1-4c.

1904 H, 82, pl. xxx, figs. 8, 9.

Fowler, H. W. 1911 A, 57, figs. 23, 25 (O. lanceolatus).

Lerche, M. 1902 A, 23.

1905 A, 76.

1906 B, 350, 351, 352, 353, 355.

1906 C, 419.

1908 A, 242, pl. v, figs. 1-5.

1926 A, 15, text-fig. 1.

Müller, B. L. 1911 A, 103.

1912 A, 2.

Shattuck, G. B. 1904 A, xvi.

Shattuck, Müller and Bibbins 1907 A, 5.

Stanton, T. W. 1920 A, 49, pl. ix, fig. 14.

Stefano, G. 1912 A, 373, pls. xiii, xiv (Lamna).

1912 B, 44, pls. 1, II (Lamna).

Stromer, E. 1905 C, 170.

Woodward, A. S. 1889 I, 10.

Zittel and Schlosser 1923 A, 57, fig. 87 (Lamna).

Tertiary, Europe, Egypt. Upper Cretaceous (Manassquan, etc.), New Jersey (Lance); North Dakota, South Dakota. Eocene (Shark River), New Jersey (Aquia); Virginia: (Pamunkey), Maryland Miocene (Shiloh), New Jersey. (Calvert, Aquia); Maryland.

Otodus sulcatus Geinitz.

Gemutz, F. E. 1843, Char. Schicht. u. Petraf. sachs-bohm Kreidegeb., Nachtr., 5, pl. iv, fig. 2.

Hay, O. P. 1902 A, 304 (O. divaricatus).

Leidy, J.* 1873 B, 305, 251, pl. xvii, figs. 26-23 (O. divaricatus).

Lerche, M. 1902 B, 115, pl. iii, fig. 47.

Priem, F. 1908 B, 48.

1912 B, 268.

Cretaceous, Europe: Cretaceous; Texas, Mississippi: (Benton); Kansas.

Otodus trigonatus Agassiz.

Hay, O. P. 1902 A, 305.

Eocene; South Carolina?.

Otodus sp. indet.

Gilbert, G. K. 1875 A, 543 Cretaceous? New Mexico.

Merrill, G. P. 1907 A, 13. Eocene (Wasatch); New Mexico.

Tuomey, M. 1848 A, 160, 163, 166 ("Otodus").

Tertiary; South Carolina

Uhler, P. H. 1892 A, 206 (Massachusetts).

Isurus Rafinesque. Type *I. oxyrhynchus*

Unless otherwise indicated the authors, as cited, employ for this genus the name *Oxyrhina*.

Hay, O. P. 1902 A, 305 (Isurus)

Allis, E. P. 1915 A, 587.

Ameghino, F. 1906 A, 186.

Ardit, T. 1923 A, 484 (Isurus, *Oxyrhina*)

Bridge, T. W. 1904 A, 451 (Isurus).

Bronn H. G. 1848 B, 888.

1849 A, 643.

Coulon L. 1903 A, 120.

Duméril, A. 1856 A, 131.

Fowler, H. W. 1911 A, 31 (Isurus).

Garman S. 1913 A, 34 (Isurus)

Gaudry, A. 1896 A, 172, fig. 158

Giebel, C. G. 1855 A, 116, pl. xlvii.

Hay O. P. 1901 B, 67 (Isurus).

Huber, O. 1901 A, 618.

Humphreys, J. 1908 A, 14.

Jaekel, O. 1895 E, 32.

1904 A, 27.

Jordan, D. S. 1907 A, 107 (Isurus).

1910 B, 182 (Isurus)

1917 A, 78.

1923 A, 99 (Isurus).

Jordan and Gilbert 1882 A, 28 (Isurus)

Jordan and Hannibal 1923 A, 50 (Isurus).

Lawley R. 1878 B, 337.

1878 C, 343.

1881 A, pls.

Lerche, M. 1906 C, 419.

1910 D, 274, fig. 77.

Mantell, G. A. 1844 A, 628.

Müller and Henle 1838 A, 36.

Priem F. 1908 B, 47.

Probst, J. 1886 B, 308.

Radcliffe, L. 1916 A, 247 (Isurus).

Regan, C. T. 1906 A, 734.

Raf. = Oxyrhina spallanzani Bonaparte.

Ridewood, W. G. 1921 A, 358.

Roth W. 1911 A, 539, pls. vi, vii.

Sauvage E. 1867 A, 123.

Smith, H. M. 1916 A, 342 (Isurus)

Stefano, G. 1912 A, 397.

Stromer, E. 1905 C, 167.

Weiler, W. 1922 A, 88.

Woodward, A. S. 1889 I, 11.

1912 A (1911), 202.

Zittel and Koken 1911 A, 52.

Zittel and Schlosser 1923 A, 58, fig. 89.

Isurus crassus (Agassiz).

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 180, pl. II, fig. 19 (*Oxyrhina*)

Eastman, C. R. 1903 A, 185, pl. i, figs. 11-20; text-figs. 1-3 (*Oxyrhina*).

1906 E, 82, pl. II, figs. 1-5, 8-12, 14-17 (*Oxyrhina*)

Lerche, M. 1906 A, 299 (*Oxyrhina*).

Stefano, G. 1912 A, 404, pls. xiii, xiv (*Oxyrhina*. This species?).

Worthen, A. H. 1890 A, 4, fig. 8 (*Oxyrhina*. This species?).

Eocene, South Carolina, Alabama, Illinois?.

Isurus desorii (Agassiz).

Hay, O. P. 1902 A, 305.

Ameghino, F. 1906 A, 180, 259; pl. II, fig. 18, text-fig. 47 (*Oxyrhina*).

1908 B, 481 (*Oxyrhina*).

Chapman, F. 1918 A, 16, 31, pl. v, figs. 15, 16.

Coulon, L. 1903 A, 121 (*Oxyrhina*).

Eastman, C. R. 1904 H, 79, pl. xxx, fig. 4 (*Oxyrhina*).

Fowler, H. W. 1911 A, 22, figs. 5, 6.

* Not Cope, E. D. 1873 B, etc., as in Hay, O. P. 1902 A, 304.

- Gervais, P. 1852 A, explan. pl. lxxv (*Oxyrhina*).
1859 A, 520; pl. lxxv, fig. 2 (*Oxyrhina*).
Hopkins, F. V. 1870 A, 93 (*Oxyrhina*).
Jordan, D. S. 1907 A, 112 (This species?).
Jordan and Beal 1913 A, 246, 251.
Jordan and Hannibal 1923 A, 48 (This genus and species?).
Lawley, R. 1878 C, 346, 349 (*Oxyrhina*).
Leriche, M. 1905 A, 128, 189.
1906 A, 299 (*Oxyrhina desori*).
1906 B, 353 (*Oxyrhina desori*).
1906 C, 414, pl. xvi, figs. 8-12 (*Oxyrhina desori*).
1910 B, 330, pl. iii, figs. 14, 15 (*Oxyrhina desori*).
1910 D, 275, pl. xvi, figs. 16-31 (*Oxyrhina desori*).
Priem, F. 1907 A, 465, fig. 8 (*Oxyrhina*).
1911 B, 330 (*Oxyrhina*).
1912 A, 215, 218, 227, 238; pl. vi, figs. 1-9; pl. vii, figs. 2-5 (*Oxyrhina desori*).
Sellards, E. H. 1913 A, pl. vi, figs. 5-7 ("shark").
Shattuck, G. B. 1904 A, xcvi.
Stefano, G. 1912 A, 399, pls. xiii, xiv (*Oxyrhina*).
Stromer, E. 1903 A, 30; pl. i, figs. 13-15 (*Oxyrhina*).
1905 C, 167; pl. xv, figs. 15-18 (*Oxyrhina desori*?).
Weiler, W. 1922 A, 89 (*Oxyrhina*).
Tertiary; Europe: (Chico); California??:
Upper Cretaceous; New Jersey: Miocene;
New Jersey, Maryland, Louisiana: Eocene;
Alabama, North Carolina, South Carolina
- Isurus hastalis* (Agassiz).**
Hay, O. P. 1902 A, 306 (*I. hastalis*); 307 (*I. planus*, *I. tumulus*).
Ameghino, F. 1906 A, 179, 259 (*Oxyrhina*).
1908 B, 479 (*Oxyrhina*).
Anderson, F. M. 1911 A, 101 (*I. planus*, *I. smithi*, *I. tumulus*).
Arnold, R. 1907 A, 153 (*Oxyrhina plana*, *O. tumulus*).
Arnold and Hannibal 1913 A, 591 (*Isurus*).
Bassani, F. 1891 A, 31, pl. 1, fig. 3; pl. ii, figs. 1, 26 (*Oxyrhina*).
Blake, W. P. 1857 A, 171, 172, figs. 1, 6 (*Oxyrhina plana*, *O. tumula*).
1866 A, 107, fig. 9 (*Oxyrhina plana*).
Chapman, F. 1918 A, 17, 31, pl. v, fig. 21; pl. vi, fig. 5.
Coulon, L. 1903 A, 121 (*Oxyrhina plicatilis*, *O. hastalis*).
Dall, W. H. 1894 A, 297 (*Oxyrhina*).
Eastman, C. R. 1904 H, 80, pl. xxx, figs. 5, 6 (*Oxyrhina*).
Fowler, H. W. 1911 A, 25, figs. 7, 8.
Gaudry, A. 1906 B, 114 (*Oxyrhina*).
Gervais, P. 1852 A, explan. pl. lxxv (*Oxyrhina hastalis*, *O. xiphodon*, *O. plicatilis*).
1859 A, 520, pls. lxxv (*Oxyrhina hastalis*, *O. xiphodon*, *O. plicatilis*).
Hay, O. P. 1927 D, 174.
Ishiwara, Y. 1921 A, 62, pl. x, figs. 1-32.
- Jordan, D. S. 1907 A, 107, fig. 9 (*I. planus*); 109, figs. 10, 11 (*I. tumulus*); 111, fig. 12 (*I. smithi*).
1910 B, 181 (*I. hastalis*, *I. planus*, *I. smithi*, *I. tumulus*).
1922 B, 342, fig. c (*I. planus*. This species?).
1925 B, 7, 40.
Jordan and Beal 1913 A, 246, 249, 250, 251 (*I. smithi*, *I. planus*, *I. tumulus*).
Jordan and Gilbert 1919 A, 21, pl. vii, figs. A, D, H, (*I. plana*, *I. smithi*, *I. tumulus*, syns.).
Jordan and Hannibal 1923 A, 50, 61, pl. i, figs. b, g, h; pl. iii, figs. g, x, y; pl. v, figs. d, e, f.
Lawley, R. 1878 B, 339 (*Oxyrhina*).
1878 C, 348 (*Oxyrhina planus*, *O. tumulus*).
Leriche, M. 1906 A, 300 (*Oxyrhina*).
1906 C, 415.
1908 C, 303 (*Oxyrhina*, *Isurus plana*, *I. tumulus* and *I. smithi* as syns.).
Lyll, C. 1845 C, 549, 560 (*I. hastalis*, *I. xiphodon*).
Merriam, J. C. 1915 B, 288, fig. 7 (*I. planus*?).
Newton, E. T. 1891 A, 106, pl. ix, figs. 15a, 15b (*Oxyrhina*).
Priem, F. 1911 B, 330 (*Oxyrhina*).
1912 A, 215, 218, 227, 238 (*Oxyrhina*).
Shattuck, G. B. 1904 A, xcvi.
Stefano, G. 1901 A, 555, pl. x, figs. 1, 2 (*Oxyrhina*).
1912 A, 406, pls. xiii, xiv (*Oxyrhina*).
1912 B, 48, pls. i, ii.
Stromer, E. 1905 C, 168 (*Oxyrhina*).
Tomes, C. S. 1898 B, 446 (*Oxyrhina*).
Weiler, W. 1922 A, 88 (*Oxyrhina*).
Upper Cretaceous (Manasquan); New Jersey, Delaware: Eocene (Arago); Oregon: (Teton), California Miocene (Calvert and Choptank), Maryland Virginia (Monterey); California, Lower California: (Empire); Oregon: Pliocene (San Diego); California: Pleistocene (Lomita); California.
- Isurus mantellii* (Agassiz).**
Hay, O. P. 1902 A, 306.
Abel, O. 1919 A, 109, fig. 68 (*Oxyrhina*).
Ameghino, F. 1906 A, 71 (*Oxyrhina*).
Bassani, F. 1890 A, 1, pls. (*Oxyrhina*).
Coulon, L. 1903 A, 120 (*Oxyrhina*).
Fowler, H. W. 1911 A, 28, figs. 9, 10 (*I. acuminatus*).
Gervais, P. 1852 A, explan. pl. lxxvi (*Oxyrhina*).
1859 A, 524, pl. lxxvi, figs. 3, 20 (*Oxyrhina*).
Hill, R. T. 1901 A, 328 (*Oxyrhina extensa*).
Lawley, R. 1878 B, 339 (*Oxyrhina*).
Leriche, M. 1902 B, 116, pl. iii, figs. 49-53 (*Oxyrhina*).
1906 B, 349 (*Oxyrhina*).
1906 C, 418 (*Oxyrhina*).
Moodie, R. L. 1912 C, 378.
Priem, F. 1896 B, 12, pl. i, fig. 10 (*Oxyrhina mantelli*).
1907 A, 464, fig. 4 (*Oxyrhina*).
1908 B, pl. ii, fig. 3 (*Oxyrhina*).
1912 B, 268 (*Oxyrhina*).

Sauvage, E. 1867 A, 123, pl. iii, fig. 12 (*Oxyrhina*).

Spillman, W. 1863 A (*Oxyrhina*).

Sternberg, C. H. 1900 B, 38 ("shark").

1906 B, 123 (*Oxyrhina mantelli*).

1907 C, 123 (*Oxyrhina*).

1909 C, 113 (*Oxyrhina mantelli*).

1911 A, 71 (*Oxyrhina mantelli*).

Woodward, A. S. 1912 A (1911), 202, pl. xliii, figs. 10-15; text-figs. 60, 61 (*Oxyrhina*).

Upper Cretaceous; Europe: Upper Cretaceous (Manasquan); New Jersey: Cretaceous; Alabama, Kansas, Mississippi. Eocene, New Jersey: Miocene, New Jersey.

Isurus minutus (Agassiz).

Hay, O. P. 1902 A, 306.

Eastman, C. R. 1904 H, 81 (*Oxyrhina*. This species?)

Shattuck, G. B. 1904 A, xcv.

Stromer, E. 1905 C, 168 (*Oxyrhina*).

Miocene. North Carolina: Miocene (Chesapeake); Maryland: Eocene; South Carolina.

Isurus retroflexus (Agassiz).

Agassiz, L. 1843 B, 281, pl. xxxiii, fig. 10 (*Oxyrhina*).

Hay, O. P. 1902 A, 306 (*I. hastalis*, in part).

Agassiz, L. 1843 B, 283, pl. xxxvii, fig. 16 (*Oxyrhina crassa*).

Chapman, F. 1918 A, 18, pl. iv, figs. 1, 2.

Davis, J. W. 1888 A, 26, pl. iv, figs. 1, 2 (not 3), (*O. vonhaastii*); 27, pl. v, fig. 14 (*O. recta*).

Gibbes, R. W. 1846 A, 42 (*Oxyrhina*).

Woodward, A. S. 1889 D, 389 (*O. crassa*).

Miocene, South Carolina: Eocene, Miocene, Pliocene, Europe.

Isurus sanctæ-claræ Jordan and Hamlin.

Jordan and Hamlin 1923 A, 52, 61, pl. iii, figs. e, f; pl. vi, fig. e.

Cretaceous (Chico); California: Oligocene (Vaqueros, San Lorenzo); California: Miocene (Monterey); California.

Isurus sillimanii (Gibbes).

Hay, O. P. 1902 A, 307.

Eastman, C. R. 1904 H, 81, pl. xxx, fig. 7 (*Oxyrhina*).

Fowler, H. W. 1911 A, 40, fig. 11.

Shattuck, G. B. 1904 A, xcv.

Stromer, E. 1905 C, 168 (*Oxyrhina*).

Miocene: New Jersey: Miocene (Calvert); Maryland. Eocene; Egypt.

Isurus sp. indet.

Hay, O. P. 1902 A, 307.

Cannon, G. L. 1890 B, 313 (*Oxyrhina*). Upper Cretaceous (Niobrara); Colorado.

Cope, E. D. 1875 E, 296 (*Oxyrhina* sp.)

Greensand No. 4, New Jersey.

Fowler, H. W. 1911 A, 42.

Hay, O. P. 1923 A, 381. Pleistocene (Early); Florida.

Jordan and Hannibal 1923 A, 52. Eocene; Oregon.

Mernam, J. C. 1914 C, 644 (Tambor, California).

1915 E, 197, fig. 23.

Tuomey, M. 1848 A, 160, 163, 169 (*Oxyrhina*). Eocene; South Carolina.

CARCHARODONTINÆ Gill

Gill, T. 1893 A, 130.

Hay, O. P. 1902 A, 307.

Jordan and Hannibal 1923 A, 53 (*Carcharodontidae*).

CARCHARODON A. Smith. Type *Squalus carcharias* Linn.

Hay, O. P. 1902 A, 307.

Ameghino, F. 1906 A, 186.

Ardt, T. 1923 A, 484.

Bassani, F. 1891 A, 13.

Bridge, T. W. 1904 A, 452.

Bronn, H. G. 1848 A, 219.

1849 A, 642.

Coulon, L. 1903 A, 127.

Cunningham, J. T. 1912 A, 284.

Deecke, W. 1913 A, 83.

Dollo, L. 1904 C, 48.

Duméril, A. 1856 A, 131.

Eastman, C. R. 1901 B, 107.

Fowler, H. W. 1911 A, 59.

Garman, S. 1913 A, 32.

Giebel, C. G. 1855 A, 116.

Hay, O. P. 1901 B, 67.

Heilprin, A. 1887 A, 297, 300.

Humphreys, J. 1908 A, 14, pl. i, fig. 4.

Jaekel, O. 1895 E, 23, pls. i, ii.

Jordan, D. S. 1905 A, 538.

1907 B, 195.

1919 B, 190.

Jordan, D. S. 1923 A, 99.

1928 A, 1.

Jordan and Gilbert 1883 A, 30.

Jordan and Hannibal 1923 A, 53.

Kingsley, J. S. 1885 A, 79.

Klaatsch, H. 1890 A, 121.

Lawley, R. 1878 A, 330.

1881 A, pls.

Leriche, M. 1906 C, 413.

1910 D, 287, fig. 89.

Leunis and Ludwig 1883 A, 784.

Matthew, W. D. 1908 H, 110.

Muller and Henle 1838 A, 36.

Owen, R. 1839 G, 212.

1845 B, 30.

Priem, F. 1908 B, 79, 123, fig. 61.

Probst, J. 1886 B, 309.

Radcliffe, L. 1916 A, 247.

Ridewood, W. G. 1921 A, 355, fig. 9.

Schmalhausen, J. J. 1913 A, 10.

Smith, H. M. 1916 A, 242.

Stefano, G. 1912 A, 357.

Storms, R. 1901 A, 259.

Stromer, E. 1905 C, 172.

1905 E, 215.

1925 A, 20.

Terra, P. 1911 A, 200, fig. 49.

Tomes, C. S. 1898 B, 459.

Wilckens, O. 1911 A, 708.

Woodward, A. S. 1889 I, 11.

Zittel and Koken 1911 A, 53.

Zittel and Schlosser 1923 A, 58.

Carcharodon angustidens Agassiz.

Hay, O. P. 1902 A, 307 (C. auriculatus, in part)

Ameghino, F. 1906 A, 181, pl. II, fig. 20.

Coulon, L. 1903 A, 127.

Dall, W. H. 1894 A, 297.

Dean, B. 1923 A, 607, fig.

Hopkins, F. V. 1871 A, 13 (This species?).

Jordan, D. S. 1907 A, 112.

Leriche, M. 1906 A, 303

1906 C, 411.

1910 B, 330.

Priem, F. 1906 A, 199, pl. VIII, figs. 14, 15.

1911 B, 331, fig. 3.

1912 A, 215, 227, 239, pl. VII, fig. 7.

Sellards, E. H. 1913 A, pl. VII, fig. 6 ("shark." This species?).

Storms, R. 1901 A, 266.

Stromer, E. 1905 C, 173, pl. XV, figs. 1-7.

Tertiary; of world-wide distribution. Eocene and Miocene; reported from some parts of the United States: Eocene (Jackson and Vicksburg); Louisiana.

Carcharodon arnoldi Jordan.

Jordan, D. S. 1907 A, 113, fig. 13.

Arnold and Anderson 1910 A, 130, 133, 329

Hay, O. P. 1927 D, 174.

Ishiwara, Y. 1921 A, 67, pl. XII, figs. 3, 4.

Jordan, D. S. 1910 B, 182.

1922 B, 340.

1926 B, 258.

Jordan and Beal 1913 A, 245, 252.

Jordan and Gilbert 1919 A, 22, 62.

1920 A, 9

Jordan and Hannibal 1923 A, 55, 62, pl. I, fig. f, pl. VI, fig. j.

Leriche, M. 1908 C, 304 (Syn. of C. rondeleti)

Miocene (Monterey); Pliocene (San Diego):

Pleistocene (San Pedro); all in California.

Carcharodon branneri Jordan.

Jordan, D. S. 1907 A, 116, fig. 15.

Anderson, F. M. 1911 A, 10.

Hay, O. P. 1927 D, 174.

Jordan, D. S. 1926 B, 258.

Jordan and Gilbert 1919 A, 22 (Syn. of C. megalodon).

Jordan and Hannibal 1923 A, 53, pl. VI, fig. f; pl. V, fig. a.

Leriche, M. 1908 C, 304 (Syn. of C. megalodon)

Miocene (Monterey); California, Lower California, South Carolina, Florida: Pliocene (Purissima); California: Pleistocene (San Pedro); California.

Carcharodon carcharias (Linn.).

Hay, O. P. 1902 A, 308.

Ardt, T. 1923 A, 485 (C. rondeleti).

Bassani, F. 1905 A, 13, pl. I (C. rondeleti).

Chapman, F. 1918 A, 20, pl. VI, fig. 22; pl. VIII, figs. 1, 2 (C. rondeleti).

Garman, S. 1913 A, 32, pl. V, figs. 5-9.

Haswell, W. A. 1884 A, 83, pl. I (C. rondeleti)

Ishiwara, Y. 1921 A, 68, pl. XII, fig. 5.

Jordan, D. S. 1905 A, 538.

1907 B, 195.

1910 B, 182.

1922 B, 340, fig. 1d. (This species?).

Jordan and Beal 1913 A, 252.

Jordan and Gilbert 1882 A, 30.

Radcliffe, L. 1916 A, 247, pl. XXXVIII.

Smith, H. M. 1916 A, 341, fig.

Stefano, G. 1901 A, 558 (C. rondeleti).

1912 B, 43, p's I, II (C. rondeleti)

Stevenson, W. G. 1884 A, 83, pls I, II.

1884 B, 140 pl. I, text-fig 1.

Recent in all temperate and tropical seas:

Miocene?, Pliocene?, Pleistocene?; California.

Carcharodon contortidens Emmons.

Hay, O. P. 1902 A, 308.

Eocene, North Carolina

Carcharodon lanciformis Gibbs.

Hay, O. P. 1902 A, 308.

Eastman, C. R. 1906 E, 82, pl. II, figs 13, 19-22.

Jordan and Hannibal 1923 A, 57.

Phosphate beds; South Carolina.

Carcharodon leptodon Agassiz.

Hay, O. P. 1902 A, 308 (This species?)

Eocene; South Carolina.

Carcharodon leviathan Jordan and Hannibal.

Jordan and Hannibal 1923 A, 55, pls. VII, VIII.

Hay, O. P. 1927 D, 174, 187.

Jordan, D. S. 1922 B, 338, figs. 1-3 (C. branneri).

1925 B, 49

1926 B, 258.

Pleistocene (Lomita, La Brea); California.

Carcharodon megalodon Agassiz.

Agassiz, L. 1843 B (1835), pl. XXIX, figs. 1-7 (Carcharias).

Hay, O. P. 1902 A, 308.

Abel, O. 1922 C, 237, fig. 197 and frontispiece.

Ameghino, F. 1904 B, 11.

1906 A, 185, 259.

1908 B, 481.

Ardt, T. 1907 D, 596.

Bassani, F. 1891 A, 14, pl. I, figs. 1, 2.

Binney, E. W. 1879 A, 118 (Carcharias vulgaris).

Blake, C. C. 1862 C, 316.

Blake, J. H. 1873 A, 172 (C. subauriculatus).

1874 A, 270 ("Carcharodon").

Chapman, F. 1918 A, 19, pl. II, figs. 1-3

Coulon, L. 1903 A, 127.

- Croom, H. B. 1835 A, 170 ("shark").
 Dean, B. 1909 A, 233, pl.
 Eastman, C. R. 1903 A, 186, pl. 1, figs. 21-23
 1904 H, 82, pl. xxxi, figs. 1-4.
 1906 E, 82, pl. ii, fig. 23.
 Gaudry, A. 1906 B, 114.
 Gervais, P. 1852 A, explan. pls lxxiv, lxxv.
 1850 A, 520, 521, pl. lxxiv, figs. 10-12, 16.
 Giebel, C. G. 1855 A, 116, pl. xlvii, fig. 18.
 Hansemann, D. 1910 A, 387.
 Harlan, R. 1834 B, 89 ("shark," in part).
 Hay, O. P. 1922 B, 2.
 1927 D, 187.
 Hennig, E. 1914 A, 307, pl. xxiii, fig. 8 (This species?).
 Hussakof, L. 1912 C, 224, 2 figs.
 Jaekel, O. 1902 E, 1078.
 Jordan, D. S. 1905 A, 1, 533, fig. 332.
 1907 A, 116.
 1907 B, 195, fig. 138.
 1910 B, 182.
 1922 B, 338.
 Jordan and Beal 1913 A, 245, 251.
 Jordan and Gilbert 1919 A, 22.
 Jordan and Hannibal 1923 A, 54 (C. megalodon, C. mortoni).
 Lawley, R. 1878 A, 334.
 Lankester, E. R. 1905 A, 26, 51, fig. 192a.
 Lerche, M. 1906 A, 304.
 1908 C, 304 (C. riversi, in part, and C. branneri as syns).
 Lucas, F. A. 1901 J, 65.
 Lyell, C. 1845 A, 415 (Carcharias).
 1845 C, 549, 560 (C. megalodon, C. productus).
 McLenahan, S. 1852 A, 71 ("whale," in part).
 Manigault, G. E. 1887 A, 131, pl. 1.
 Newton, E. T. 1891 A, 103, pl. ix, figs. 12a, 13b.
 Owen, R. 1839 G, 212 (Carcharias).
 1845 B, 34 (Carcharias).
 1868 A, 570.
 Priem, F. 1912 A, 215, 218, 227, 239, pl. vii, figs. 8, 9.
 1914 A, 122, pl. iii, fig. 4.
 Serres, M. 1852 A, 116.
 Shattuck, G. B. 1904 A, xcvi.
 Stefano, G. 1912 A, 300, pls. xiii, xiv.
 1912 B, 41, pls. i, ii.
 Sternberg, C. H. 1911 A, 71.
 Underhill, B. M. 1910 A, 77.
 Weiler, W. 1922 A, 92, pl. ii.
 Woodward, A. S. 1922 C, 72, fig. 73.
 Zittel and Schlosser 1923 A, 58, fig. 91.
 Miocene (Calvert); Maryland, Virginia, South Carolina?, California.

CARCHAROCLES Jordan and Hannibal. Type *Carcharodon auriculatus* (Blainville).

- Jordan and Hannibal* in Jordan, D. S. 1923 A, 99.
 Jordan, D. S. 1923 A, 99.
 Jordan and Hannibal 1923 A, 56.

Carcharocles auriculatus (Blainville).

Unless otherwise indicated the authors, as cited, refer this species to *Carcharodon* Hay, O. P. 1902 A, 307.

Carcharodon morricei Jordan.

- Jordan, D. S.* 1926 B, 259, pl. xxvi, fig. 2
 Lower Miocene (Temblor); California.

Carcharodon polygyrus (Morton).

- Hay, O. P. 1902 A, 308 (C. megalodon, including C. polygyrus, by error C. polygyrus).
 Fowler, H. W. 1911 A, 61, fig. 27.
 Ishiwara, Y. 1921 A, 65 (C. polygyrus, syn. of C. megalodon).
 Sellards, E. H. 1915 D, 98, fig. 28 ("Carcharodon").

Upper Cretaceous (Manasquan?); New Jersey: Eocene (Shark River?); New Jersey, Delaware. Eocene (Pamunkey); Virginia: Miocene? New Jersey: Miocene or Pliocene, Florida.

Carcharodon purplei Jordan and Hannibal.

- Jordan and Hannibal* 1923 A, 56, 63, pl. v, fig. a, pl. vi, fig. b.
 Hay, O. P. 1927 D, 174.
 Jordan, D. S. 1926 B, 260.
 Pliocene (San Diego); California.

Carcharodon riversi Jordan.

- Jordan, D. S.* 1907 A, 115, fig. 14.
 Hay, O. P. 1927 D, 174.
 Ishiwara, Y. 1921 A, 67.
 Jordan, D. S. 1910 B, 182 (Syn. of C. carcharias?).
 1922 B, 340, fig. 1b.
 1926 B, 260.

Jordan and Beal 1913 A, 245, 252 (Syn. of C. arnoldi).

- Jordan and Hannibal* 1923 A, 56, 63, pl. v, fig. b.
 Lerche, M. 1908 C, 104 (Syn. of C. rondeletii).
 Pliocene or Pleistocene (San Diego); California.

Carcharodon temblorisi Jordan.

- Jordan, D. S.* 1926 B, 258, pl. xxvi, figs. 1, 3.
 Lower Miocene (Temblor); California.

Carcharodon sp. indet.

Undetermined teeth of *Carcharodon* have been reported as follows:

- Hay, O. P. 1923 A, 370 Pleistocene, Florida.
 Merriam, J. C. 1915 E, 197, fig. 22 California.
 Osborn, H. F. 1918 A, 23 Miocene (Temblor); California.
 Sellards, E. H. 1915 D, 98, fig. 28 Florida.
 Tuomey, M. 1848 A, 160, 165, 166, 178, 180.
 Tertiary; South Carolina.
 Uhler, P. H. 1892 A, 205, 206 Massachusetts.

- Eastman, C. R. 1901 B, 108.
 Fowler, H. W. 1911 A, 59, fig. 26.
 Gervais, P. 1852 A, explan. pls. lxxiv, lxxv (Carcharodon disaurus).
 1859 A, 520, pls. lxxiv, lxxv (C. disaurus).
 Hay, O. P. 1922 B, 3.
 Jordan, D. S. 1923 A, 99 (To Carcharocles)
 Jordan and Hannibal 1923 A, 57 (Carcharodon acutidens).
 Leriche, M. 1905 A, 130, 189, 208.
 1906 B, 353, 355.
 1906 C, 411 (C. auriculatus); 414 (C. disaurus).
 Lucas, F. A. 1901 J, 66.
 Priem, F. 1906 A, 199, pl. viii, fig. 13.
 Sellards, E. H. 1913 A, pl. vi, figs. 1-4 ("shark").
 Stefano, G. 1912 A, 358, pls. xiii, xiv (Carcharodon).
 1912 B, 39, 40, pls. i, ii (Carcharodon auriculatus, C. angustidens).
 Storms, R. 1901 A, 261, pl. vii, figs. 5-16 (C. auriculatus); 267 (C. turgidus).
- Stromer, E. 1905 C, 173.
 1905 E, 315.
 Woodward, A. S. 1889 I, 11 (Carcharodon).
 Upper Cretaceous (Manasquan, etc.); New Jersey: Eocene (Shark River); New Jersey: (Nanjemoy); Maryland, Virginia: (Fayette); Texas: Miocene (Shiloh); New Jersey.
- Carcharocles rectus (Agassiz).**
 Hay, O. P. 1902 A, 308 (Carcharodon).
 Anderson, F. M. 1911 A, 101 (Carcharodon).
 Arnold, R. 1907 A, 153 (Carcharodon).
 Blake, W. P. 1857 A, 173 (Carcharodon).
 Gabb, W. P. 1865 A, 174 (Carcharodon).
 Jordan, D. S. 1907 A, 112 (Carcharodon).
 1910 B, 182 (Carcharodon).
 Jordan and Beal 1913 A, 245, 248, 252 (Carcharodon).
 Jordan and Gilbert 1919 A, 22 (Carcharodon).
 Jordan and Hannibal 1923 A, 57, pl. i, figs. a-f, i-j (Carcharocles).
 Miocene (Monterey); California.
- CORAX Agassiz. Type Galeus pristodotus Morton.**
 Hay, O. P. 1902 A, 309.
 Ameghino, F. 1906 A, 182, 186.
 Arlitt, T. 1923 A, 484.
 Bronn, H. G. 1848 A, 333.
 1849 A, 642.
 Chapman, F. 1909 A, 452.
 Coulon, L. 1903 A, 128.
 Fowler, H. W. 1911 A, 62.
 Giebel, C. G. 1855 A, 117.
 Hay, O. P. 1901 B, 67.
 Jordan, D. S. 1905 A, i, 542.
 1907 B, 195, 199.
 1919 B, 214.
 1923 A, 99.
 Leriche, M. 1902 B, 119.
 1906 C, 413.
 Priem, F. 1908 B, 20, fig. 10.
 Sauvage, H. E. 1867 A, 124.
 Wmckler, T. C. 1876 A, 10.
 Woodward, A. S. 1917 D, lxxiv.
 1912 A (1911), 196, text-fig. 57.
 Zittel and Koken 1911 A, 52.
 Zittel and Schlosser 1923 A, 58.
- Corax curvatus Williston.**
 Hay, O. P. 1902 A, 309.
 Cretaceous (Benton); Kansas.
- Corax falcatus Agassiz.**
 Hay, O. P. 1902 A, 309 (C. falcatus); 311 (Galeocerdo hartwelli).
 Ameghino, F. 1906 A, 71.
 Berry, E. W. 1916 A, 354, pl. ix, fig. 2.
 Cockerell, T. D. A. 1908 C, 162 (C. falcatus); 161 (Galeocerdo hartwelli).
 Coulon, L. 1903 A, 128 (C. appendiculatus).
 Fowler, H. W. 1911 A, 63, fig. 28.
 Gidley, J. W. in Veatch and Stephenson 1911 A, 208, 215.
 1926 E, 16.
 Giebel, C. G. 1855 A, 117, pl. xivii, figs. 13, 17 (C. heterodon).
- Henning, E. 1914 A, 307, pl. xxiii, fig. 6 (C. heterodon).
 Hussakof, L. 1908 A, 29, fig. 6.
 Leriche, M. 1902 B, 121, pl. iii, figs. 76-78.
 1906 B, 348.
 1906 C, 415.
 Priem, F. 1907 A, 463, figs. 3, 6.
 1912 B, 269.
 1913 A, 161.
 Sauvage, E. 1867 A, 124.
 Stephenson, L. W. 1912 A, 127, 130, 136, 148.
 1918 A, 153, 157.
 Woodward, A. S. 1912 A (1911), 198, pl. xlii, figs. 16-23; text-fig. 59.
 Cretaceous; Europe: Upper Cretaceous (Ripley); Georgia (Niobrara); Kansas, New Mexico, Texas Wyoming (Manasquan, etc.); New Jersey: (Matawan); Maryland.
- Corax pristodotus Agassiz.**
 Hay, O. P. 1902 A, 309.
 Berry, E. W. 1916 A, 352, pl. ix, fig. 1.
 Fowler, H. W. 1911 A, 64, fig. 29.
 Leriche, M. 1902 B, 119, pl. iii, figs. 66-75.
 1906 B, 348.
 1906 C, 420.
 Lyell, C. 1844 A, 303 (Galeus).
 Mantell, G. A. 1844 A, 626, fig. 130 (Galeus).
 Merrill, G. P. 1907 A, 11 (Galeocerdo).
 Morton, S. G. 1834 A, 31, pl. ii, fig. 6 (Squalus sp.).
 Priem, F. 1896 B, 17, pl. ii, figs. 11-13.
 1912 B, 269.
 1914 C, 367, pl. x, fig. 17.
 Spillman, W. 1863 A (C. appendiculatus).
 Todd, J. E. 1908 A, 194.
 Tuomey, M. 1848 A, 166 ("Corax").
 Woodward, A. S. 1912 A (1911), 197, pl. xlii, figs. 12-15; text-fig. 58.
 Upper Cretaceous; Old World: Upper Cretaceous (Manasquan, etc.); New Jersey:

(Matawan, Monmouth); Maryland: Eocene;
Alabama, Mississippi, South Carolina: Mio-
cene; Virginia.

CORAX sp. indet.

Gidley, J. W. 1926 F, 192, pl. lxii, fig. 11.
Upper Cretaceous (Ripley); Tennessee.

PSEUDOCORAX Priem. Type *Corax affinis* Agassiz.

Priem, F. 1897 A, 46.

Lerche, M. 1902 B, 122.

Pseudocorax affinis (Agassiz).

Hay, O. P. 1902 A, 309 (Corax).

Lerche, M. 1902 B, 122, pl. iii, figs. 79-86.
1906 C, 80, 411.

Priem, F. 1897 A, 46, pl. i, figs. 20-27.

1898 B, 400, pl. x, fig. 8.

Woodward, A. S. 1912 A (1911), 201, pl. xliii,
figs. 4-9 (Corax).

Upper Cretaceous; Europe: Eocene; Ala-
bama?

XENODOLAMIA Leidy. Type *X. praeus* Leidy.

Hay, O. P. 1902 A, 301 (Xiphodolamia); 309
(Xenodolamia).

Fowler, H. W. 1911 A, 25 (Xiphodolamia).

Jordan, D. S. 1923 A, 99 (Xenodolamia, Xipho-
dolamia).

Jordan and Hannibal 1923 A, 42, 45, 48, 58
(Xiphodolamia).

Lerche, M. 1905 A, 183 (Xenodolamia); 184
(Xiphodolamia)

1906 C, 199, figs. 42-48 (Xiphodolamia a
syn.).

Xenodolamia ensis Leidy.

Hay, O. P. 1902 A, 301 (Xiphodolamia).

Eastman, C. R. 1904 H, 77 (Xiphodolamia).

Fowler, H. W. 1911 A, 26, fig. 2 (Xiphodo-
lamia).

Upper Cretaceous (Manasquan, etc.); New
Jersey.

Xenodolamia praeus Leidy.

Hay, O. P. 1902 A, 309.

(Phosphate beds); South Carolina

Xenodolamia simplex Leidy.

Hay, O. P. 1902 A, 309.

(Phosphate beds); South Carolina

Superfamily GALEOIDÆ, new form.

Hay, O. P. 1902 A, 301 (Galeoidea).

Ardt, T. 1923 A, 484 ("galeoiden").

Beer, G. R. 1924 B, 60 (Scyllioiden).

Fowler, H. W. 1911 A, 29 (Galei).

Garman, S. 1913 A, 10, 12 (Carcharoiden).

Gill, T. 1873 F, 12 (Galeorhinoidea).

1882 A, 967 (Anarthri or Galei).

1885 A, lxiv (Anarthri).

Goodrich, E. S. 1909 A, 148 (Scyllioiden).

Gregory, W. K. 1907 D, 446 (Scyllorhinoidea)

Jordan, D. S. 1905 A, i, 525; ii, 558 (Astero-
spondyli).

1907 B, 186, 189, 758 (Astrospondyli, Galei).

1923 A, 100 (Galeoiden).

Pompeckj, J. F. 1913 A, 1127 (Galeoiden)

Rauther, M. 1913 A, 1098 (Galeoiden)

Regan, C. T. 1906 A, 723, 741 (Galeoiden).

1908 D, 247 (Galeoiden).

Ridewood, W. G. 1921 A, 313 (Galeoiden).

Van Wijhe, J. W. 1922 A, 291 (Galeoiden).

GINGLYMOSTOMIDÆ Gill.

Gill, T. 1872 C, 24.

Hay, O. P. 1902 A, 310 (Ginglymostominae).

Fowler, H. W. 1911 A, 29 (Ginglymostomidae)

Garman, S. 1913 A, 43 (Orectolobidae).

Gill, T. 1862 A, 406 (Ginglymostomatoidae).

Goodrich, E. S. 1909 A, 149 (Orectolobinae).

Jordan, D. S. 1905 A, i, 533 (Ginglymostomidae)

Jordan, D. S. 1907 B, 190, 758 (Ginglymostomi-
dae).

1923 A, 98 (Ginglystomidae, *erroref*).

Mayer, P. 1886 A, 275 ("scylliolamiden").

Radcliffe, L. 1916 A, 248 (Orectolobidae).

Regan, C. T. 1906 A, 723 (Orectolobidae).

Stromer, E. 1905 C, 165, 179 (Scylliolamidae).

Zittel, K. A. 1890 A, 80 (Scylliolamidae).

GINGLYMOSTOMINÆ Gill.

Hay, O. P. 1902 A, 310.

GINGLYMOSTOMA Müller and Henle. Type *Squalus cirratus* Gmelin.

Hay, O. P. 1902 A, 310.

Ardt, T. 1923 A, 485.

Bridge, T. W. 1904 A, 447.

Duméril, A. 1856 A, 121 ("ginglymostome")

Fowler, H. W. 1911 A, 30.

Garman, S. 1913 A, 43, 54.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1919 C, 190.

1923 A, 98.

Jordan and Gilbert 1882 A, 18.

Lerche, M. 1906 C, 415.

Mayer, P. 1886 A, 275.

Müller and Henle 1838 A, 35

Priem, F. 1904 A, 288.

1908 B, 94, fig. 51.

1914 A, 121.

Radcliffe, L. 1916 A, 248, pl. xxxix.

Regan, C. T. 1906 A, 736, fig. 116.

1908 D, 348, 350.

Ridewood, W. G. 1921 A, 342, 366, fig. 18.

- Schlosser, M. 1917 A, 143
 Stromer, E. 1905 C, 165.
 Zittel and Schlosser 1923 A, 56, fig. 79.

Ginglymostoma obliquum (Leidy).

- Hay, O. P. 1902 A, 310.

- Fowler, H. W. 1911 A, 30, fig. 4.
 Eocene; New Jersey.

Ginglymostoma serra (Leidy).

- Hay, O. P. 1902 A, 310.
 Eocene; South Carolina.

SCYLIORHINIDÆ Regan.

- Regan, C. T. 1906 A, 723, 741, 745.

Unless otherwise indicated the authors, as quoted, use for this family the name *Scyllorhinidæ*.

- Hay, O. P. 1902 A, 310 (*Scyllorhinidæ*).

- Allis, E. P. 1913 A, 322.

- 1914 A, 359.

- 1923 B, 145.

- 1926 B, 338.

- Arlt, T. 1907 D, 233 (*Scyllidæ*)

- 1923 A, 436 ("scyllorhiniden").

- Bonaparte, C. L. 1840 A, 46 (*Scyllini*).

- Braus, H. 1899 A, 521 ("scyllidæ").

- 1906 A ("scylliden")

- Bridge, T. W. 1904 A, 446.

- Carus, V. 1875 A, 601.

- Cope, E. D. 1891 N, 17 (*Scyllidæ*)

- Cunningham, J. T. 1912 A, 246.

- Dollo, L. 1889 F, 341.

- 1904 C, 50.

- Fitzinger, L. J. 1873 A, 55 (*Scyllia*).

- Gegenbaur, C. 1870 B, 449 ("scyllien").

- Gill, T. 1905 A, 658 (*Scyllorhinidæ*).

- Muller and Henle 1838 A, 34 (*Scyllia*).

- Goodrich, E. S. 1909 A, 149 (*Scyllorhinidæ*).

- Gregory, W. K. 1907 D, 446 (*Scyllorhinidæ*).

- Günther, A. C. 1881 A, 685.

- Hay, O. P. 1901 B, 67 (*Scyllorhinidæ*).

- Huber, O. 1901 A, 612 (*Scyllidæ*).

- Imms, A. D. 1905 A, 44.

- Jordan, D. S. 1905 A, I, 532; II, 591 (*Scyllorhinidæ*).

- 1907 B, 189, 758 (*Scyllorhinidæ*).

- Jordan, D. S. 1923 A, 98 (*Scyllorhinidæ*).

- Jordan and Gilbert 1882 A, 17, 58.

- Kingsley, J. S. 1885 A, 83.

- Kryzanovsky, S. 1916 A, 235 (*Pristurus*)

- Leigh-Sharpe, W. H. 1926 A, 339.

- Leunis and Ludwig 1883 A, 785.

- Mayer, P. 1886 A, 253, 273.

- Owen, R. 1868 A, 13.

- Pompeckj, J. F. 1913 A, 1127.

- Priem, F. 1904 A, 288 (*Scyllidæ*).

- 1908 B, 95 ("scyllidés").

- Rabimerson, A. 1925 A, 436, 453 ("scylliden").

- Rabl, C. 1901 A, 523 ("scyllien").

- Rauther, M. 1913 A, 1098.

- Regan, C. T. 1906 A, 723, 741, 745 (*Scyllorhinidæ*).

- 1908 A, 453 (*Scyllorhinidæ*).

- 1912 A, 837 (*Scyllorhinidæ*).

- Ridewood, W. G. 1921 A, 362.

- Roth, W. 1911 A, 534.

- Sagemehl, M. 1883 A, 225 ("scyllien").

- Schlosser, M. 1917 A, 137, 139, 141 ("scylliden").

- Schmalhausen, J. J. 1913 C (*Scyllidæ*).

- Stromer, E. 1905 C, 164, 179.

- 1912 A, 19.

- Van Wijhe, J. W. 1922 A, 292 (*Scyllidæ*)

- Wallace, A. R. 1876 A, n, 461 (*Scyllidæ*)

- White, J. W. 1905 A, 321 (*Scyllidæ*)

- Woodward, A. S. 1898 B, 46 (*Scyllidæ*).

- 1912 A (1911), 193.

- Zittel and Koken 1911 A, 50 (*Scyllidæ*)

- Zittel and Schlosser 1923 A, 56 (*Scyllidæ*).

SCYLIORHININÆ new form.

- Hay, O. P. 1902 A, 310 (*Scyllorhininæ*).

- Gill, T. 1862 A, 407 (*Scyllorhininæ*).

- Goodrich, E. S. 1909 A, 149 (*Scyllorhininæ*).

SCYLIORHINUS Blainville. Type *Squalus canicula* Lacepède.

Unless otherwise indicated the authors, as quoted, use the name *Scyllium* for this genus.

- Blainville, H. M. D. 1816, Bull. Soc. Philomat, 121 (*Scyllorhinus*).

- Hay, O. P. 1902 A, 310 (*Scyllorhinus*).

- Abel, O. 1919 A, 29, 107, figs. 6, 66.

- Allis, E. P. 1915 A.

- 1917 A, 108.

- 1926 A, 164.

- Arlt, T. 1923 A, 436 (*Scyllium*, *Scyllorhinus*).

- Beer, G. R. 1922 A, 459.

- 1924 C, 289, figs. 1-4, 5-10.

- Bolk, L. 1914 A, 4.

- Braus, H. 1906 A.

- Bridge, T. W. 1904 A, 446, 755.

- Bronn, H. T. 1848 B, 112.

- 1849 A, 645.

- Cartier, O. 1875 A, 67, pl. iv, fig. 3.

- Cunningham, J. T. 1912 A, 244.

- Daniel, J. F. 1922 A, figs. 21b, 22, 72, 77, 142.

- Davidoff, M. 1879 A.

- Derjugin, K. 1910 A, 587.

- Dombrowsky, B. A. 1918 A, 199, fig. 2.

- Duméril, A. 1856 A, 120 ("roussette").

- Edgeworth, F. H. 1907 A, 524.

- 1925 A, 238, figs. 1-20.

- 1926 A, 176, fig. 1.

- Elliot, A. I. M. 1907 A, 648.

- Fahrenholz, C. 1915 A, 400.

- Furbringer, K. 1902 A, 158.

- 1903 A, 393.

- Garman, S. 1913 A, 3 (*Scyllorhinus*); 71 (*Catulus* in part); 96 (*Apristurus*).

- Gaupp, E. 1905 D, 880.

- Gegenbaur, C. 1870 B, 450, pl. xv, figs. 4-6.

- 1870 C, 407.

- Gibian, A. 1912 A.

- Giebel, C. G. 1855 A, 117.

- Goodrich, E. S. 1904 A, 494, fig. 1.
 1906 A, 345, figs. 1-3.
 1909 A, 149, 516, fig. 1.
 1918 A, 1, pls. i, ii; text-fig. 1.
- Haller, G. 1923 A, 96, fig. 20.
- Hay, O. P. 1901 B, 67 (Scyllorhinus).
 Heilprin, A. 1887 A, 294, 299, 300.
- Huber, O. 1901 A, 612.
- Huxley, T. H. 1876 E, 113, fig. 10.
- Ihering, H. 1878 A, 74.
- Jacobshagen, E. 1923 A, 178.
- Jaekel, O. 1901 A, 552.
 1909 D, 722.
- Jordan, D. S. 1907 B, 190 (Scyllorhinus).
 1923 A, 98 (Scyllorhinus).
- Jordan and Gilbert 1882 A, 58, 369 (Scyllorhinus).
- Jordan and Evermann 1917 A, 95 (Scyllorhinus).
- Kilham, G. 1891 A, 85, figs. 1-24.
- Kingsbury, B. F. 1926 A, 98-104 (Scyllium).
- Kingsley, J. S. 1925 A, 228, fig. 241.
- Klaatsch, H. 1890 A, 120, 175, pls. vi, vii.
- Kner, R. 1860 B, 816.
- Lagh-Sharp, W. H. 1921 A, 359.
 1926 A, 322, 339, figs. 1-10.
- Leriche, M. 1906 C, 421.
- Leunis and Ludwig 1883 A, 785.
- Lubosch, W. 1909 A, 3.
- Matthes, E. 1921 A, 216.
- Mayer, P. 1886 A, 224.
- Meck, A. 1916 A, 39, 40 (Scyllorhinus).
- Mivart, St. G. 1878 B, 311, 332.
- Muller and Henle 1838 A, 34.
- Norman, E. W. 1926 A, 413 (Scyllorhinus).
- Owen, R. 1845 B, 27, 29.
 1848 B, 87.
 1866 A, 33, 35.
- Pouchet, G. 1878 A, 148, pl. iv.
- Priem, F. 1908 B, 77, 106.
- Probst, J. 1886 B, 308.
- Rabinerson, A. 1925 A, 436, 520, 561.
- Rabl, C. 1892 A, 109.
 1901 A, 523.
- Regan, C. T. 1906 A, 730, 735 (Scyllorhinus).
 1908 A, 453 (Scyllorhinus).
- Reynolds, S. H. 1897 A, 71, 114, 119, 130, figs. 6-8.
- Ridewood, W. G. 1895 B, 425, fig. 1.
 1896 A, 383.
 1899 A, 47, figs. 1, 2.
 1921 A, 326, 328, 362, figs. 15, 16.
- Roth, W. 1911 A, 534, pls. vi, vii.
- Ryder, J. 1886 A, 74.
- Sabatier, A. 1898 A, 929.
 1903 B, 1217.
- Salensky, W. 1899 B, 304.
- Schaumsland, H. 1906 A, 395, fig. 1.
- Schmalhausen, J. J. 1912 A, 510.
 1913 B, 745.
 1913 C, pl. i.
 1916 C, 214, fig. 6.
- Sečerov, S. 1911 A, 8, pl. 1.
- Sewertzoff, A. N. 1926 D, 87, fig. 16.
- Sewertzoff and Disler 1924 A, 247 (Scyllorhinus).
- Shann, E. W. 1919 A, 533.
- Solger, B. 1880 B, 466.
- Stannius, H. 1854 A, 89.
- Stenhard, O. 1903 A, 16.
- Tomes, C. S. 1876 A, 266, pl. xxxi.
 1898 B, 444.
- Van Wijhe, J. W. 1922 A, 276, 291.
- White, J. W. 1905 A, 319.
- White, P. J. 1896 A, 158.
- Williston, S. W. 1905 B, 347 (Scyllorhinus).
- Woodward, A. S. 1912 A (1911), 194.
- Ziegler, H. E. 1923 A, 66, fig. 3.
- Zittel and Schlosser 1923 A, 56, fig. 78.
- Scyllorhinus? gracilis (Willist.).**
 Hay, O. P. 1902 A, 310 (Scyllorhinus).
 Merrill, G. P. 1907 A, 20 (Scyllorhinus).
 Cretaceous (Greenleaf), Kansas.
- Scyllorhinus planidens (Willist.).**
 Hay, O. P. 1902 A, 310 (Scyllorhinus).
 Merrill, G. P. 1907 A, 20 (Scyllorhinus).
 Cretaceous (Greenleaf), Kansas.
- Scyllorhinus rugosus (Willist.).**
 Hay, O. P. 1902 A, 310 (Scyllorhinus).
 Merrill, G. P. 1907 A, 20 (Scyllorhinus).
 Cretaceous (Greenleaf); Kansas.

GALEIDÆ Hoernes ?

- Hoernes, R. 1886 A, 542 (earliest?).
- Hay, O. P. 1902 A, 310 (Galeidæ).
- Abel, O. 1919 A, 121 (Carcharidæ).
- Allis, E. P. 1914 A, 359 (Carcharidæ).
- Ardit, T. 1923 A, 486 ("carchariden").
- Braus, H. 1906 A, 182 ("carchariden").
- Bridge, T. W. 1904 A, 448 (Carcharidæ).
- Carus, V. 1875 A, 600 (Carcharidæ).
- Dollo, L. 1889 F, 342 (Carcharidæ).
 1904 C, 48 (Carcharidæ).
- Eastman, C. R. 1901 B, 108 (Carcharidæ).
- Fahrenholz, C. 1915 A, 402 (Carcharias).
- Fitzinger, L. J. 1873 A, 55 (Galen).
- Fowler, H. W. 1911 A, 66 (Galeorhinidæ).
- Gill, T. 1872 A, 24 (Galeorhinidæ).
- Goodrich, E. S. 1909 A, 150 (Carcharidæ).
- Gregory, W. K. 1907 D, 447 (Galeidæ).
- Hay, O. P. 1901 B, 67 (Galeidæ).
- Hoernes, R. 1886 A, 541 (Carcharidæ); 542 (Galeidæ).
- Huber, O. 1901 A, 624 (Galeidæ).
- Imms, A. D. 1905 A, 43 (Carcharidæ).
- Jordan, D. S. 1905 A, 1, 540; II, 561 (Carcharidæ).
 1907 B, 197, 758 (Carcharidæ).
 1923 A, 100 (Galeidæ).
- Laaser, P. 1900 A, 480 (Mustelus).
- Leriche, M. 1906 C, 165 (Carcharidæ).
- Leunis and Ludwig 1883 A, 783 (Carcharidæ).
- Rabinerson, A. 1925 A (Carcharidæ).
- Radcliffe, L. 1916 A, 267 (Galeorhinidæ).
- Rauther, M. 1913 A, 1098 (Carcharidæ).
- Regan, C. T. 1906 A, 723, 746 (Carcharidæ).
- Ridewood, W. G. 1895 B, 429 (Carcharidæ).
 1921 A, 313, 330, 351, 395 (Carcharidæ).
- Schlösser, M. 1917 A, 145 ("carchariden").

Schmalhausen, J. J. 1913 A, 24 (Carchariidæ).
 Stenman, G. 1907 A, 401 (Carchariidæ).
 Stromer, E. 1905 C, 174, 180 (Carchariidæ).
 Terra, P. 1911 A, 201 (Galeidæ, Carchariidæ).

Woodward, A. S. 1889 I, 12 (Carchariidæ).
 Zittel and Koken 1911 A, 51 (Carchariidæ).
 Zittel and Schlosser 1923 A, 56 (Carchariidæ).

GALEINÆ Jordan and Evermann.

Jordan and Evermann 1896 A, 27.

GALEUS Rafinesque. Type *Squalus mustelus* Linn.

Rafinesque, C. S. 1910, Car. Alc. Nuov. Gen., 13
 Hay, O. P. 1902 A, 312 (Galeorhinus).
 Abel, O. 1919 A, 121, fig. 80.
 Allis, E. P. 1913 A, 326.
 1922 B, 198.
 1923 B, 145.
 Arldt, T. 1923 A, 486.
 Beer, R. G. 1922 A, 471.
 Bridge, T. W. 1904 A, 449
 Davidoff, M. 1879 A.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 126 ("milandre").
 Edgeworth, F. H. 1926 A, 189.
 Fahrenholz, C. 1915 A, 402.
 Garman, S. 1913 A, 169 (Galeorhinus).
 Gaupp, E. 1905 D, 884.
 Gegenbaur, C. 1870 C, 407.
 Gibian, A. 1912 A, 60.
 Haswell, W. A. 1884 A, 84.
 Hay, O. P. 1901 B, 67 (Galeorhinus).
 Imms, A. D. 1905 A, 44.
 Jacobshagen, E. 1923 A, 176.
 Jordan, D. S. 1905 A, 1, 541.
 1917 A, 78.
 1923 A, 100.
 Jordan and Beal 1913 A, 247.
 Jordan and Evermann 1917 A, 78.
 Jordan and Gilbert 1882 A, 21 (Galeorhinus).
 Leigh-Sharpe, W. H. 1921 A, 359, figs. 1-4
 (Galeorhinus)

Leigh-Sharpe, W. H. 1926 A, 340.
 Leydig, F. 1852 A.
 Locy, W. A. 1894 A, 171.
 Muller and Henle 1838 A, 36
 Nauck, E. T. 1926 B, 78, fig. 18.
 Owen, R. 1845 B, 24, 35, 39.
 1848 B, 87.
 Priem, F. 1904 A, 291.
 1908 B, 97.
 Rabinerson, A. 1925 A, 520
 Radcliffe, L. 1916 A, 267, fig. 19
 Reynolds, S. H. 1897 A, 108, 118, fig. 15.
 Ridewood, W. G. 1895 B, 432.
 1899 A, 52.
 Seferov, S. 1911 A, 8, 10, pl. 1.
 Stannius, H. 1854 A.
 Steinhard, O. 1903 A, 17, 34 (Galeorhinus)
 Stromer, E. 1925 A, 20
 Tomes, C. S. 1898 B, 446, pl. xvii.
 Weiler, W. 1922 A, 103, pls. 1, 2.
 Whitehouse, H. 1910 C, 138
 Williamson, W. C. 1851 A, 676.
 Woodward, A. S. 1889 I, 12
 Zittel and Schlosser 1923 A, 56.

Galeus sp. indet.

Hay, O. P. 1902 A, 312 (Galeorhinus).
 Woodward, A. S. 1889 D, 456 (Galeus).
 Eocene; Alabama.

GALEORHININÆ Gill.

Gill, T. 1862 A, 399, 409 (earliest?).
 Hay, O. P. 1902 A, 311.
 Goodrich, E. S. 1909 A, 151 (Carcharone).

Jordan and Evermann 1896 A, 27.
 Jordan and Gilbert 1882 A, 19.

GALEOCERDO Müller and Henle. Type *G. tigrinus* M. and H.

Hay, O. P. 1902 A, 311.
 Agassiz, L. 1874 A, 131.
 Allis, E. P. 1909 A, 202 (Galeus).
 1915 A, 584 (Galeus).
 1919 C, 257 (Galeus).
 Ameghino, F. 1906 A, 186.
 Bassani, F. 1891 A, 35.
 Bronn, H. G. 1848 A, 52 (Galeocerdo); 524
 (Galeus).
 1849 A, 644.
 Coulon, L. 1903 A, 129.
 Dollo, L. 1904 C, 48.
 Duméril, A. 1856 A, 129.
 Eastman, C. R. 1901 B, 109.
 Fowler, H. W. 1911 A, 66
 Garman, S. 1913 A, 148.
 Giebel, C. G. 1855 A, 117.
 Hay, O. P. 1901 B, 67.
 Heiprin, A. 1887 A, 297, 300.

Jordan, D. S. 1905 A, 1, 541; 2, 571.
 1907 B, 198.
 1919 B, 192.
 1923 A, 100.
 Jordan and Gilbert 1882 A, 21.
 Jordan and Hannibal 1923 A, 38
 Klaatsch, H. 1890 A, 121.
 Lawley, R. 1881 A, pls.
 Leriche, M. 1906 C, 415
 1910 D, 295, fig. 95 (Galeus); 301 (Galeo-
 cerdo).
 Mayer, P. 1886 A, 275.
 Müller and Henle 1838 A, 36.
 Priem, F. 1908 B, 80, 108.
 Radcliffe, L. 1916 A, 250, 261, pl. xlii; text-fig.
 16.
 Regan, C. T. 1906 A, 736, fig. 116.
 Ridewood, W. G. 1896 A, 383, 386.
 1921 A, 353.

Stromer, E. 1905 C, 174, 180.
1925 A, 20.

Terra, P. 1911 A, 201, fig. 51.

Weidenreich, F. 1926 A, 46.

Weiler, W. 1922 A, 103, pl. 1.

Winckler, T. C. 1876 A, 11.

Woodward, A. S. 1889 I, 12.

Zittel and Koken 1911 A, 51.

Zittel and Schlosser 1923 A, 56.

***Galeocerdo aduncus* Agassiz.**

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 185, 259.

1908 B, 485, figs. o, u

Bassani, F. 1891 A, 36, pl. 1, fig. 4; pl. ii, fig. 20.

Eastman, C. R. 1904 H, 88; pl. xxxii, fig. 11.

Fowler, H. W. 1911 A, 67, figs. 30, 31.

Gervais, P. 1852 A, explan. pl. lxxiv, fig. 8.

1859 A, 520, pl. lxxiv, fig. 8.

Jordan, D. S. 1910 B, 182.

Leriche, M. 1906 A, 308.

Priem, F. 1912 A, 215, 219, 228, 239.

Shattuck, G. B. 1904 A, xcvi.

Upper Cretaceous (Manasquan, etc.); New Jersey · Miocene (Calvert), Maryland: (Kirkwood), New Jersey.

***Galeocerdo contortus* Gibbes.**

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 182, pl. ii, figs. 26, 27.

Eastman, C. R. 1904 H, 87, pl. xxxii, fig. 9.

Fowler, H. W. 1911 A, 69, fig. 32.

Shattuck, G. B. 1904 A, xcvi.

Stromer, E. 1905 C, 176.

Upper Cretaceous (Manasquan); New Jersey · Miocene (Calvert and Choptank), Maryland.

***Galeocerdo crassidens* Cope.**

Hay, O. P. 1902 A, 311.

Upper Cretaceous (Niobrara); Kansas

***Galeocerdo laevisimus* Cope.**

Hay, O. P. 1902 A, 311.

Eastman, C. R. 1904 H, 84, pl. xxxii, fig. 2 (Carcharias).

Shattuck, G. B. 1904 A, xcvi (Carcharias)

Miocene (Calvert); Maryland.

***Galeocerdo latidens* Agassiz.**

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 182, pl. ii, figs. 24, 25.

1908 B, 485, figs. a, e, i.

Coulon, L. 1903 A, 130.

Clark and Miller 1912 A, 117, 118.

Eastman, C. R. 1901 B, 109, pl. xiv, fig. 8.

1904 H, 88, pl. xxxii, fig. 10.

Fowler, H. W. 1911 A, 70, fig. 33.

Gervais, P. 1859 A, 520, pl. lxxiv, fig. 7.

Hopkins, F. V. 1870 A, 93.

1871 A, 12.

Leriche, M. 1905 A, 77, 136, 190, pl. viii, figs. 19-28.

Leriche, M. 1906 B, 353, 355.

1906 C, 417 pl. xi, figs. 19-28.

Priem, F. 1906 A, 202, fig. 6.

1908 B, pl. iv, fig. 10.

Sellards, E. H. 1913 A, pl. vii, fig. 16 ("shark").

1915 D, 81, 98, fig. 28 ("Galeocerdo").

(This species?).

Shattuck, G. B. 1904 A, xcvi.

Stromer, E. 1903 A, 23, pl. 1, fig. 7.

1905 C, 175, pl. xvi, figs. 10-15.

Woodward, A. S. 1889 I, 12, figs. 31, 32.

Eocene, Louisiana: Eocene (Nanjemoy);

Maryland: Miocene; New Jersey. (Calvert and Choptank); Maryland.

***Galeocerdo minor* Agassiz.**

Hay, O. P. 1902 A, 311.

Ameghino, F. 1906 A, 259.

Bassani, F. 1891 A, 37.

Hopkins, F. V. 1871 A, 13.

Leriche, M. 1905 A, 77, 134, 190, 201, pl. viii, figs. 33-43 (Galeus).

1906 C, 418 (Galeus).

Priem, F. 1907 A, 317, figs. 1, 2 (Galeus).

Stromer, E. 1905 C, 175.

Tertiary; Europe: Eocene; Alabama, Louisiana

***Galeocerdo productus* Agassiz.**

Hay, O. P. 1902 A, 312.

Anderson, F. M. 1911 A, 101.

Blake, W. P. 1857 A, 171, 172, figs. 4, 5.

1866 A, 290.

Jordan, D. S. 1907 A, 101, 114, fig. 13, 110, figs. 4a-4c (This species?).

Jordan and Beal 1913 A, 245, 247.

Jordan and Gilbert 1919 A, 21.

Jordan and Hannibal 1923 A, 40 (Syn of *Gyrace occidentalis*)

Leriche, M. 1908 C, 305 (G. productus Agassiz and G. productus Jordan 1907 A, 101, fig. 13 as syns of G. aduncus).

Miocene (Monterey); California.

***Galeocerdo subcrenatus* Emmons.**

Hay, O. P. 1902 A, 312.

North Carolina; formation unknown

***Galeocerdo triquetus* Eastman.**

Eastman, C. R. 1904 H, 89, pl. xxxii, fig. 12.

Shattuck, G. B. 1904 A, xcvi.

Miocene (Calvert); Maryland

***Galeocerdo* sp. indet.**

Hay, O. P. 1902 A, 312.

Cannon, G. L. 1890 B, 313, Upper Cretaceous (Niobrara), Colorado

Gidley, J. W. 1927 E, 274 Pleistocene; Florida.

Hay, O. P. 1927 D, 274. Pleistocene; Florida.

Merrill, G. P. 1907 A, 11. Eocene; New Mexico.

Tuomey, M. 1848 A, 166, 180. Eocene; South Carolina.

GYRACE Jordan and Hannibal. Type *Scymnus occidentalis* Agassiz.

Jordan and Hannibal in Jordan, D. S. 1923 A, 100.

Jordan and Hannibal 1923 A, 38.

Gyrace occidentalis (Agassiz).

Hay, O. P. 1902 A, 314 (Scymnorhinus)

Anderson, F. M. 1911 A, 101 (Dalatias).

Blake, W. P. 1857 A, 172 (Scymnus).

Braus, H. 1899 A, 518 (Scymnus).

Jordan, D. S. 1907 A, 118 (Dalatias).

1919, in Jordan and Gilbert 1919 A, 17,
20, pl. vii, fig. G (Triakis beali).

Jordan, D. S. 1923 A, 100 (To Gyrace).

Jordan and Beal 1913 A, 245-253 (Dalatias).

Jordan and Gilbert 1919 A, 23, 62 (Scymnorhinus); 17, 20, pl. vii, fig. g (Triakis beali).

Jordan and Hannibal 1923 A, 40, 62, pl. ii, figs. b-f, l, m, g, cc.

Klaatsch, H. 1890 A, 107, pl. vi (Scymnus).

Leunis and Ludwig 1883 A, 787 (Scymnus).

Mayer, P. 1886 A, 250 (Scymnus).

Owen, R. 1866 A, 78 (Scymnus).

Seferov, S. 1911 A, 8 (Scymnus).

Miocene (Monterey), California

CARCHARHININÆ Jordan and Evermann

Hay, O. P. 1902 A, 312.

Garman, S. 1913 A, 12 (Carcharinidæ)

Goodrich, E. S. 1909 A, 151 (Carcharinæ).

Mayer, P. 1886 A, 273, 275 (Carcharidæ)

Radcliffe, L. 1916 A, 250 (Carcharhinidæ).

CARCHARHINUS Blainville. Type *C. commersonianus* Blainville.

Hay, O. P. 1902 A, 312.

Ameghino, F. 1906 A, 182 (Carcharias).

Ardt, T. 1923 A, 486 (Carcharias).

Bridge, T. W. 1904 A, 448, 734 (Carcharias)

Bronn, H. G. 1849 A, 642 (Glyphis); 645 (Carcharias).

Chapman, F. 1918 A, 8 (Carcharias).

Davidoff, M. 1879 A (Carcharias).

Duméril, A. 1856 A, 124 ("requin").

Fahrenheit, C. 1915 A, 401 (Carcharias).

Fowler, H. W. 1911 A, 74 (Glyphis).

Garman, S. 1913 A, 4, 123 (Carcharinus)

Gegenbaur, C. 1870 B, 451, pl. xv, figs. 9, 10 (Carcharias).

1870 C, 405 (Carcharias).

Hay, O. P. 1901 B, 67

Huber, O. 1901 A, 624, pl. xxvii (Carcharias)

Jordan, D. S. 1905 A, i, 542; ii, 561 (Carcharias).

1917 A, 95

1923 A, 100.

1928 A, 1.

Jordan and Beal 1913 A, 248.

Jordan and Evermann 1917 A, 95.

Jordan and Gilbert 1882 A, 22.

Jordan and Hannibal 1923 A, 36.

Leriche, M. 1906 C, 413 (Carcharias).

Leunis and Ludwig 1883 A, 733 (Carcharias)

Mayer, P. 1886 A, 246 (Carcharias).

Müller and Henle 1838 A, 34 (Carcharias)

Priem, F. 1904 A, 290 (Carcharias, Aprionodon)

1908 B, 96 (Carcharias).

Rabinerson, A. 1925 A, 440, fig. 2; 493 (Carcharias).

Radcliffe, L. 1916 A, 250, 255, pls. xxxix-xli; text-figs. 12-14.

Ridewood, W. G. 1921 A, 342, 355 (Carcharias).

Rosenberg, E. 1887 A, 32 (Carcharias).

Stromer, E. 1905 C, 176, 181 (Carcharias).

Struck, W. 1915 A, 138, fig. 5 (Carcharias).

Tomes, C. S. 1898 B, 444, 449, pl. xviii (Carcharias).

1898 C, 344 (Carcharias).

White, J. W. 1905 A, 320 (Carcharias).

Williamson, W. C. 1851 A, 677, pl. xxxi, figs. 33-36

Zittel and Koken 1911 A, 51.

Carcharhinus (Prionace) **antiquus** (Agassiz).

Hay, O. P. 1902 A, 312.

Anderson, F. M. 1911 A, 101 (Carcharias).

Blake, W. P. 1857 A, 172 (Prionodon).

1866 A, 290 (Prionodon).

Eastman, C. R. 1904 H, 85 (Prionodon)

Jordan, D. S. 1907 A, 103, fig. 5 (Carcharias);

105, fig. 4 (Galeus zygopterus?)

Jordan and Beal 1913 A, 245, 248 (C. antiquus);

245, 247, fig. a (Galeorhinus hannibali).

Jordan and Gilbert 1919 A, 21 (C. antiquus);

21, 62 (Galeorhinus hannibali)

Jordan and Hannibal 1923 A, 36, 62, pl. ii, figs

c, k, j, p

Miocene; California.

Carcharhinus collatus (Cope).

Cope, E. D. in Eastman, C. R. 1904 H, 85 (Sphyrna).

Eastman, C. R. 1904 H, 85, pl. xxxii, figs. 3-5 (Carcharias).

Leriche, M. 1906 A, 305 (Carcharias. This species?).

Miocene (Calvert and Choptank); Maryland; Neocene; France.

Carcharhinus (Prionace) **egertoni** (Agassiz).

Hay, O. P. 1902 A, 312.

Ameghino, F. 1906 A, 182, 185, 259 (Carcharias).

Eastman, C. R. 1904 H, 84, pl. xxxii, fig. 1 (Carcharias).

Dall and Harris 1892 A, 73 (Galeocerdo).

Fowler, H. W. 1911 A, 75, fig. 36 (Glyphis).

Leriche, M. 1906 A, 306 (Carcharias).

Shattuck, G. B. 1904 A, xvi [Carcharias (Prionodon)].

Stromer, E. 1905 C, 177, pl. xvi, figs. 17-19 (Prionodon).

Upper Cretaceous (Manasquan, etc.); New Jersey: Miocene (Calvert); Maryland: (Kirkwood); New Jersey.

Carcharhinus (Aprionodon) gibbesii (Woodward).

Hay, O. P. 1902 A, 313.

Ameghino, F. 1906 A, 185, 259 (Carcharias gibbesii).

Fowler, H. W. 1911 A, 75 (Aprionodon).

Priem, F. 1911 B, 336 (Carcharias).

Eocene, South Carolina, Alabama.

Carcharhinus incidens Eastman.

Eastman, C. R. 1904 H, 87, pl. xxxii, fig. 8 (Carcharias).

Shattuck, G. B. 1904 A, xcvi (Carcharias).

Middle Miocene (Calvert); Maryland.

MICRODUS Emmons.

Hay, O. P. 1902 A, 313.

Jordan, D. S. 1923 A, 100.

The type is an object of uncertain relationships.

HEMIPRISTIS Agassiz.

Hay, O. P. 1902 A, 313.

Ardit, T. 1923 A, 486.

Bassani, F. 1891 A, 38.

Bronn, H. G. 1848 A, 585.
1849 A, 645.

Coulon, L. 1903 A, 129.

Fowler, H. W. 1911 A, 71.

Giebel, C. G. 1855 A, 117.

Hay, O. P. 1901 B, 67.

Jordan, D. S. 1923 A, 100.

Jordan and Beal 1913 A, 248.

Jordan and Hannibal 1923 A, 40.

Klaatsch H. 1890 A, 121.

Stefano, G. 1912 A, 409.

Stromer, E. 1905 C, 174, 180.

Zittel and Koken 1911 A, 51.

Zittel and Schlosser 1923 A, 56, fig. 80.

Hemipristis chiconis Jordan.

Jordan, D. S. 1907 A, 105, fig. 7.

Jordan and Beal 1913 A, 245, 248.

Jordan and Hannibal 1923 A, 36, 61 (Notidanion?).

Cretaceous (Chico), California.

Hemipristis heteropleurus Agassiz.

Hay, O. P. 1902 A, 313.

Anderson, F. M. 1911 A, 101.

Blake, W. P. 1857 A, 171, 172, fig. 3.
1866 A, 290.

Jordan, D. S. 1907 A, 104, fig. 6.

1910 B, 182.

1919 B, 214.

Jordan and Beal 1913 A, 245, 248.

Jordan and Gilbert 1919 A, 21.

Jordan and Hannibal 1923 A, 40, 44, 62, pl. ii, figs. u, v, aa, bb.

Lerche, M. 1908 C, 305 (Syn. of *H. serra*).
Miocene (Monterey); California.

Carcharhinus magdalenae Jordan and Hannibal.

Jordan and Hannibal 1923 A, 38, 63, pl. ii, figs. n, r, s; pl. iii, figs. aa, bb; pl. vi, fig. d.

Hay, O. P. 1927 D, 174.

Miocene (Monterey); Pleistocene? (Lomita); California.

Carcharhinus (Prionace) tenuis (Agassiz).

Hay, O. P. 1902 A, 313.

Senonian; Switzerland: Eocene?; South Carolina.

Carcharhinus sp. indet.

Hay, O. P. 1902 A, 313 Eocene; Alabama.

Tuomey, M. 1848 A, 166 ("Glyphus"). Tertiary; South Carolina.

Type *M. laevis* Emmons.

Microodus laevis Emmons.

Hay, O. P. 1902 A, 313.

Triassic; North Carolina.

Type *H. serra* Agassiz.

Hemipristis serra Agassiz.

Hay, O. P. 1902 A, 313.

Ameghino, F. 1906 A, 185, 259.

Bassani, F. 1891 A, 38, pl. i, fig. 15.

Blake, C. C. 1863 C, 316.

Clark and Miller 1912 A, 167, 168.

Coulon, L. 1903 A, 129 (*H. serra*, *H. paucidens*).

Dall, W. H. 1894 A, 297.

Dall and Harris 1892 A, 73 (*Nemipristis*, misprint).

Eastman, C. R. 1904 H, 90, pl. xxxii, figs. 13, 14.

Fowler, H. W. 1911 A, 71, figs. 84, 35.

Gervais, P. 1852 A, explan., pl. lxxiv.

1859 A, 519, pl. lxxiv.

Gorjanović-Kramberger, D. 1891 A, 97.

Hay, O. P. 1922 B, 3.

Jordan, D. S. 1910 B, 182.

Jordan and Beal 1913 A, 248.

Jordan and Hannibal 1923 A, 40, 44 (Syn. ? of *H. heteropleurus*).

Lerche, M. 1906 A, 309.

Mantell, G. A. 1844 A, 624, fig. 130.

Priem, F. 1912 A, 215, 219, 228, 239.

Sellards, E. H. 1913 A, pl. vii, fig. 12 ("shark").

1915 D, 99, fig. 26 ("Hemipristis").

Shattuck, G. B. 1904 A, xcvi.

Stefano, G. 1912 A, 410, pls. xii, xiv.

Stromer, E. 1905 C, 178.

Tuomey, M. 1848 A, 166, 180 ("Hemipristis").

Upper Cretaceous (Manasquan, etc.); New Jersey: Miocene (Kirkwood); New Jersey: (Calvert); Maryland, Virginia, South Carolina: Miocene; Europe.

Hemipristis sp. indet.

Hay, O. P. 1902 A, 313. Eocene; South Carolina.

Sellards, E. H. 1915 D, 98, fig. 26. Pliocene (Bone Valley); Florida.

SPHYRNIDÆ Gill.

Gill, T. 1872 B, 24.

Hay, O. P. 1902 A, 314 (Sphyrninae).

Bridge, T. W. 1904 A, 449.

Fowler, H. W. 1911 A, 77.

Garman, S. 1913 A, 155 (Cestraciontidae).

Goodrich, E. S. 1909 A, 151 (Sphyrninae).

Huber, O. 1901 A, 626 (Zygænidæ).

Jordan, D. S. 1905 A, i, 543.

1907 B, 200, 758.

1923 A, 101.

Jordan and Gilbert 1882 A, 25.

Kingsley, J. S. 1885 A, 80.

Radcliffe, L. 1916 A, 263 (Cestraciontidae).

Regan, C. T. 1906 A, 746 (Sphyrninae).

Roth, W. 1911 A, 536 (Zygænidæ).

SPHYRNA Rafinesque. Type *Squalus zygena* Linn.

Rafinesque, C. S. 1910, Indee Ittiol. Sicil., 46, 80.

Hay, O. P. 1902 A, 314.

Abel, O. 1912 F, 518.

Alth, E. P. 1915 A, 587.

Ardt, T. 1923 A, 486.

Bassani, F. 1891 A, 40.

Braus, H. 1906 A, 182.

Bridge, T. W. 1904 A, 449, 756.

Bronn, H. G. 1848 B, 1171.

1849 A, 645.

Cunningham, J. T. 1912 A, 284.

Daniel, J. F. 1922 A, figs. 62, 96 (Zygæna).

Duméril, A. 1856 A, 123 ("marteau").

Eastman, C. R. 1901 B, 109.

Fahrenheit, C. 1915 A, 402 (Zygæna).

Fowler, H. W. 1911 A, 77.

Fürbringer, K. 1903 A, 385.

Garman, S. 1913 A, 155 (Cestracion).

Giebel, C. G. 1855 A, 116.

Gudger, E. W. 1907 A, 1005.

Hay, O. P. 1901 B, 67.

Huber, O. 1901 A, 626 (Zygæna).

Imms, A. D. 1905 A, 43.

Jordan, D. S. 1923 A, 101.

Jordan and Evermann 1917 A, 82.

Jordan and Gilbert 1882 A, 26, 874.

Kingsley, J. S. 1925 A, 226, fig. 238 (Zygæna).

Köstlin, O. 1844 A (Zygæna).

Leriche, M. 1910 D, 298, fig. 96.

Leunis and Ludwig 1883 A, 783 (Zygæna).

Lloyd and Sheppard 1922 A, 971, figs. 1-7 (Zygæna).

Mayer, P. 1886 A, 235 (Zygæna).

Müller and Henle 1838 A, 35 (Zygæna).

Owen, R. 1845 B, 30 (Zygæna).

Rabimerson, A. 1925 A, 435, fig. 1; 491, fig. 3 (Zygæna).

Rabl, C. 1901 A, 477.

Radcliffe, L. 1916 A, 263, pls. xliii, xliii, text-figs. 17, 18 (Cestracion).

Ridewood, W. G. 1899 A, 49 (Zygæna).

1921 A, 355, fig. 8.

Roth, W. 1911 A, 536, pls. vi, vii (Zygæna).

Sauvage, E. 1867 A, 124 (Sphyrna).

Seferov, S. 1911 A, 8, 11, pl. i (Zygæna).

Smith, H. M. 1916 A, 347.

Stannius, H. 1854 A.

Valenciennes, A. 1822 A, 222 (Zygæna).

Wagner, R. 1843 A (Zygæna).

Sphyrna gibbesii Hay.

Hay, O. P. 1902 A, 314.

Fowler, H. W. 1911 A, 78, fig. 37.

Upper Cretaceous; New Jersey.

Sphyrna lata Agassiz.

Hay, O. P. 1902 A, 314.

Tertiary; Virginia: Eocene; South Carolina.

Identification doubtful.

Sphyrna magna Cope.

Hay, O. P. 1902 A, 314.

Eastman, C. R. 1904 H, 86, pl. xxxii, figs. 6, 7 (Carcharias).

Shattuck, G. B. 1904 A, xcvi (Carcharias).

Miocene (Calvert); Maryland.

Sphyrna prisca Agassiz.

Hay, O. P. 1902 A, 314.

Ameghino, F. 1906 A, 185, 259 (Sphyrna).

Bassani, F. 1891 A, 41, pl. ii, fig. 19.

Clark and Miller 1912 A, 117, 118.

Eastman, C. R. 1901 B, 110, pl. xiv, figs. 7a, 7b.

1904 H, 91, pl. xxxii, fig. 15.

Fowler, H. W. 1911 A, 75, 78, fig. 38.

Gorjanovič-Kramberger, D. 1891 A, 97, pl. viii, fig. 17 (This species?).

Jordan, D. S. 1907 B, 200.

Leriche, M. 1906 A, 307.

1907 A, 354, pl. iii, figs. 5-8.

Priem, F. 1904 A, 289, figs. 6, 7.

1912 A, 216, 217, 228, 240, fig. 1.

1914 A, 123, text-fig. 12.

Sauvage, E. 1867 A, 125 (Sphyrna).

Shattuck, G. B. 1904 A, xcvi.

Miocene; Europe: Eocene; South Carolina;

Eocene (Aqua); Maryland: Miocene (Calvert);

Maryland.

Superfamily SQUALOIDÆ, new form.

Ardt, T. 1923 A, 486 ("squaloiden").

Garman, S. 1913 A, 13 (Squaloidæ).

Goodrich, E. S. 1909 A, 151 (Squaliformes).

Hay, O. P. 1902 A, 314 (Squaloidæ).

Jaekel, O. 1911 A, 62 (Spinacidi).

Jordan, D. S. 1905 A, i, 543; ii, 595 (Tectospondyli).

Jordan, D. S. 1907 B, 200, 758 (Tectospondyli); 202 (Cyclospondyli).

1923 A, 101 (Squaloidæ).

Jordan and Gilbert 1882 A, 12 (Seymnoidea).

Rauther, M. 1913 A, 1098 (Squaloidæ).

Regan, C. T. 1906 A, 723 (Squaloidæ).

Stromer, E. 1905 C, 164 (Squaloidæ).

Van Wijhe, J. W. 1922 A, 291 (Squaloidæ).

SQUALIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 99
Hay, O. P. 1902 A, 314 (Somniosidae, in part).
Abel, O. 1919 A, 123 (Spinacidae).
Allis, E. P. 1914 A, 359 (Spinacidae).
 1923 B (Spinacidae, Acanthias).
Ardt, T. 1923 A, 487 ("squaliden").
Bridge, T. W. 1904 A, 454 (Spinacidae).
Brohmer, P. 1908 A, 25 (Spinax).
Gill, T. 1905 A, 658
Goodrich, E. S. 1909 A, 151 (Spinacidae).
Gunther, A. C. 1870 A, 417 (Spinacidae).
 1880 A, 330 (Spinacidae).
Jaekel, O. 1911 A, 62 (Spinacidae).
Jordan, D. S. 1905, i, 545; ii, 598.
 1907 B, 202.
 1923 A, 101.

- Laaser, P.* 1900 A, 480, figs. 1-8 (Spinax, Acanthias).
Rabinerson, A. 1925 A, 444, 517 ("spinaciden").
Radcliffe, L. 1916 A, 267.
Rauther, M. 1913 A, 1098 (Spinacidae).
Regan, C. T. 1906 A, 723.
 1908 B, 39.
Ridewood, W. G. 1921 A, 371 (Squalus).
Schlosser, M. 1917 A, 139 ("spinaciden")
Sewertzoff, A. N. 1923 B (Spinacidae)
Stannius, H. 1854 A.
Woodward, A. S. 1889 D, 30 (Spinacidae).
 1898 B, 50 (Spinacidae).
Zittel, K. A. 1890 A, 87 (Spinacidae).
Zittel and Koken 1911 A, 49 (Spinacidae).
Zittel and Schlosser 1923 A, 55 (Spinacidae).

SQUALUS Linnaeus. Type *S. acanthias* Linn.

- Linnaeus, C.* 1758 A, 233.
Allis, E. P. 1920 A, 222, pls. xxiii-xxv (Acanthias)
 1923 C, 2.
 1926 A, 164 (Acanthias).
Ardt, T. 1923 A, 487.
Beer, G. R. 1922 A, 457, figs. 1-13
 1924 B, 53.
 1926 A, 275, 285, figs. 8-10, 125-128
Bridge, T. 1904 A, 455, 729 (Acanthias).
Daniel, J. F. 1922 A, many figs. (Squalus, Acanthias).
Edgeworth, F. H. 1925 A, 237, figs. 21-23 (Acanthias).
Evans, H. M. 1923 A, 8, 27, pl. i, fig. 4, pl. ii, figs. 5, 6; text-figs. 5-7 (Acanthias).
Gaupp, E. 1905 D, 875 (Acanthias).
Gill, T. 1862, Proc. Acad. Nat. Sci. Phila., 496 (Entoxychirus).
Goodrich, E. S. 1918 A, 13 (Acanthias).
Gunther, A. C. 1880 A, 331 (Acanthias)
Haller, G. 1923 A, 96, figs. 4-6, 9-11, 15-17, 19 (Acanthias).
 1924 A, 313, fig.
 1926 A, 452, fig. 2 (Acanthias).
Hommes, J. H. 1924 A, 23, 29, fig. 19 (Acanthias).
Jordan, D. S. 1905 A, i, 545.
 1907 B, 202.
 1917 A, 11.
Jordan and Evermann 1896 A, 53.
Jordan and Gilbert 1882 A, 17.
Jordan and Hannibal 1923 A, 58.

- Kingsbury, B. F.* 1926 A, 89, 96, 104.
Kingsbury and Adelman 1924 A, 344, figs. 3, 4.
Leigh-Sharpe, W. H. 1926 A, 340 (Acanthias).
Lubosch, W. 1909 A, 2, figs. 1, 2, 7 (Acanthias).
Mori, O. 1924 A, 389 (Acanthias).
Nauck, E. T. 1926 B, 30, figs. 1-5, 17, 18 (Acanthias)
Norman, E. W. 1926 A, 412 (Acanthias).
Owen, R. 1848 B, 87 (Acanthias).
 1866 A, 32, 35, 486 (Acanthias)
Pehison, T. 1922 A, 9 (Acanthias).
Rabinerson, A. 1925 A, 437, fig. 2; 514, fig. 1
Rafinesque, C. 1810, Caratteri, etc., 13.
Risso, A. 1826, Europe Merid., 1311 (Acanthias).
Sagemehl, M. 1883 A, 220 (Acanthias).
Sewertzoff and Dröler 1924 A, 347 (Acanthias).
Stadtmüller, F. 1926 A, 160, fig. 6 (Acanthias).
Stannius, H. 1854 A (Spinax).
Van Wijhe, J. W. 1922 A, 271-278, pl. xi, text-figs. 1-4
Woodward, A. S. 1889 D, 31 (Acanthias).
Ziegler, H. E. 1923 A, 68, figs. 6, 7 (Acanthias).
Zittel, K. A. 1890 A, 87 (Acanthias).
Zittel and Koken 1911 A, 50, fig. 71.
Zittel and Schlosser 1923 A, 55, fig. 76 (Acanthias)

Squalus serriculus Jordan and Hannibal.

- Jordan and Hannibal* 1923 A, 58, 62, pl. iii, figs. m, p
 Miocene (Monterey), California.

SCYMNORHINIDÆ Jordan and J. Z. Gilbert.

- Jordan and J. Z. Gilbert* 1919 A, 23 (earliest?).
Hay, O. P. 1902 A, 314 (Somniosidae).
Abel, O. 1919 A, 123 (Spinacidae).
Allis, E. P. 1914 A, 359 (Spinacidae).
Bonaparte, C. L. 1831 A, 99 (Included all existing sharks).
 1840 A, 45 (Seymni).
Bridge, T. W. 1904 A, 454 (Spinacidae)
Duméril, A. 1856 A, 135 (Seymni).
Garman, S. 1913 A, 242 (Echnorhinidae).
Gill, T. 1905 A, 658 (Squalidae).
Goodrich, E. S. 1909 A, 151 (Spinacidae).
Huber, O. 1901 A, 604 (Seymniidae).

- Jaekel, O.* 1911 A, 62 (Spinacidae).
Jordan, D. S. 1905 A, i, 546 (Dalatidae); 547 (Echnorhinidae).
 1907 B, 203, 758 (Dalatidae); 204, 758 (Echnorhinidae).
 1923 A, 102.
Jordan and C. H. Gilbert 1882 A, 13 (Seymniidae); 15 (Spinacidae).
Jordan and J. Z. Gilbert 1919 A, 23 (Seymniidae, Echnorhinidae).
Laaser, P. 1900 A, 480, figs. 1-8 (Spinax, Acanthias).
Radcliffe, L. 1916 A, 267 (Squalidae).

Roth, W. 1911 A, 524 (Scymnidae); 530 (Echinorhinidae)
 Stannius, H. 1854 A (Spinacae, Scymnoiden).

SCYMNORHINUS Bonaparte.

At present no American species is included in this genus, *S. occidentalis* being referred to *Gyrace*.

Hay, O. P. 1902 A, 314.
 Allis, E. P. 1909 A, 202 (Scymnus).
 1914 A, 359 (Scymnus).
 1922 B, 197 (Scymnus).
 1923 B, 125 (Scymnus).
 Arldt, T. 1923 A, 488 (Scymnus).
 Beer, G. R. 1926 A, 268, fig. 1 (Scymnus).
 Braus, H. 1901 B, 191 (Scymnus).
 Bronn, H. G. 1849 A, 641 (Scymnus).
 Daniel, J. F. 1922 A, fig. 107 (Scymnus).
 Derjugin, K. M. 1909 A, (Scymnus).
 Fürbringer, K. 1903 A, 306 (Scymnus).
 1904 B, 464, fig. 10 (Scymnus).
 Garman, S. 1913 A, 236
 Gaupp, E. 1905 D, 875 (Scymnus).
 Goodrich, E. S. 1909 A, 80, 128, fig. 53
 Haswell, W. A. 1884 A, 77 (Scymnus).
 Hay, O. P. 1901 A, 67.
 Hoffmann, L. 1912 A, 278 (Scymnus).
 Huber, G. 1901 A, 604, pl. xxvii (Scymnus).
 Ihering, H. 1878 A, 74 (Scymnus).
 Jordan, D. S. 1905 A, 1, 546 (Dalatias).
 1907 B, 203 (Dalatias).
 1919 B, 225
 1923 A, 102.

ECHINORHINUS Blainville.

Hay, O. P. 1902 A, 315.
 Arldt, T. 1923 A, 488.
 Blake, W. P. 1857 A, 172.
 Fürbringer, K. 1903 A, 367.
 Garman, S. 1913 A, 243.
 Gaupp, E. 1905 D, 891, 894
 Hay, O. P. 1901 B, 67
 Jordan, D. S. 1923 A, 102.
 Jordan and Gilbert 1882 A, 14.
 Jordan and Hannibal 1923 A, 58.
 Müller and Henle 1838 A, 89 (Echinarrhinus).
 Regan, C. T. 1908 B, 39, 41.
 Ridewood, W. G. 1899 B, 346, fig.
 1921 A, 326, 373, fig. 23.

Suborder RAJIFORMES Goodrich.

Goodrich, E. S. 1909 A, viii, 153.
 Hay, O. P. 1902 A, 315 (Rajae).
 Agassiz, L. 1844 D, 142 ("rays").
 1844 E, 332 ("rays").
 1854 A, 4 ("rays").
 Allis, E. P. 1905 A, 475 (Batoidei).
 1913 A, 327 (Batoidei).
 1915 A, (Batoidei)
 1918 B, 263 (Batoidei)
 1923 B, 140 (Batoidei).
 1925 A, 76 (Batoidei).
 Anonymous, 1898 A, 373 (Batoidea).
 Arldt, T. 1907 D, 146 (Batoidei).
 1923 A, 488.
 Backman, G. 1913 A (Batoidei).
 1915 A (Rajae).

Zittel and Schlosser 1923 A, 56, figs. 3, 78 (Scyllidae).

Type *Scymnus lichia* Cuvier.

Jordan and Gilbert 1919 A.
 1919 B.
 Klaatsch, H. 1890 A, 107, pl. vi (Scymnus).
 Lakjer, T. 1927 A, 221, fig. 79 (Scymnus).
 Leigh-Sharp, W. H. 1926 A, 314, 349 (Scymnus).
 Leriche, M. 1906 C, 421 (Scymnus).
 Leydig, F. 1852 A (Scymnus).
 Luther, A. 1909 A, 21.
 Muller and Henle 1838 A, 89.
 Owen, R. 1839 G, 213 (Scymnus).
 1845 B, 25, 31, 34, pl. iv, fig. 3 (Scymnus).
 1866 A, 35, 78, 373, fig. 63 (Scymnus).
 Rabinerson, A. 1925 A, 437, fig. 2; 514, fig. 1 (Scymnus).
 Rautner, M. 1913 A, 1063, fig. 6 (Scymnus).
 Regan, C. T. 1908 B, 40, 54.
 Ridewood, W. G. 1895 B, 429.
 1899 A, 47 (Scymnus).
 1921 A, 373.
 Roth, W. 1911 A, 524, pl. vi, fig. 5 (Scymnus).
 Sewertzoff, A. N. 1923 B, fig. 1 (Scymnus).
 Stannius, H. 1854 A (Scymnus).
 Stromer, E. 1925 A, 20 (Scymnus).
 Van Wijhe, J. W. 1922 A, 291 (Scymnus).
 Versluys, J. 1922 B, 98 (Scymnus).
 Zittel and Schlosser 1923 A, 55, figs. 5, 77 (Scymnus).

Type *Squalus spinosus* Gmelin.

Stannius, H. 1854 A
 Van Wijhe, J. W. 1922 A, 291.

Echinorhinus blakei Agassiz.

Hay, O. P. 1902 A, 315.
 Blake, W. P. 1857 A, 172.
 Jordan, D. S. 1907 A, 119
 Jordan and Beal 1913 A, 253.
 Jordan and Gilbert 1919 A, 23.
 Jordan and Hannibal 1923 A, 57, pl. iv, figs. c, d.
 Miocene (Monterey); California.

Beer, G. R. 1924 B, 60 (Batoidea).
 Bessels, E. 1869 A, 153 ("rochen").
 Beyer, H. 1907 A, 266 ("rochen").
 Boas, J. E. V. 1914 B, 538 ("rochen")
 Bonaparte, C. L. 1833 A, 1203 (Rajidae).
 1838 C, 197, 201 (Rajidae).
 Braus, H. 1899 A ("rochen").
 Bridge, T. W. 1904 A, 457 (Batoidei).
 1878 A, 706 (Batoidei).
 Brohl, E. 1909 A, 247 ("rochen").
 Bruch, C. 1862 A, 79 ("rochen").
 Cunningham, J. T. 1912 A, 246 (Batoidei).
 Cuvier, G. 1805 A ("raies").
 Dana, J. D. 1863 B, 317 ("rays").
 Dean, B. 1900 A, 22 (Batoidei).
 Dohrn, A. 1884 A ("rochen").

- Dollo, L. 1889 E, 152 ("raies").
 1904 C, 47 ("batoïdes").
 Duméril, A. 1856 A, 137 ("raies").
 Echwald, E. 1832 A, 878 ("rochen").
 Emer, G. H. F. 1901 A, 41 (Raji).
 Fahrenholz, C. 1915 A, 394, 404 ("rochen").
 Fitzinger, L. J. 1873 A, 56 (Hypochismata).
 Fowler, H. W. 1911 A, 80 (Batoïdes).
 Furbringer, M. 1902 A ("rochen").
 1903 A, 623 ("rochen")
 Garman, S. 1904 A, 246, 269 (Platosomia).
 1913 A, 10, 257.
 Gaupp, E. 1905 D, 868 ("rochen").
 Gegenbaur, C. 1870 C, 410 ("rochen").
 Geoffroy, St. Hilaire, E. F. 1807 C, 91 ("raies").
 Gobel, C. G. 1855 A, 117 (Rajacen).
 Gill, T. 1905 A, 657 (Batoïdes).
 Goodrich, E. S. 1909 A, 153 (Rajiformes).
 Greene, J. R. 1861 A, 227 (Raudæ).
 Gregory, W. K. 1907 D, 446 (Rajæ).
 Haeckel, E. 1868 A, 443 (Rajæ).
 1873 A, 516 (Rajacen).
 Haller, G. 1923 A, 101, figs 2, 13 ("rochen")
 1926 A, 453 ("rochen")
 Hilzheimer, M. 1913 A, 470 (Batoïdes).
 Hoeven, J. 1822 A (Rajæ).
 Humphreys, J. 1908 A, 11 ("rays").
 Imms, A. D. 1905 A, 45 (Batoïdes).
 Jaekel, O. 1911 A, 64 (Rhinoraji).
 1913 C, 36 ("rochen")
 Jordan, D. S. 1905 A, i, 519, 549 (Batoïdes).
 1907 B, 206, 759 (Batoïdes).
 1923 A, 102 (Batoïdes).
 Jordan and Gilbert 1882 A, 36 (Rajæ).
 Kehler, F. A. 1896 A, 347 ("rochen").
 Kilban, G. 1891 A, 103, fig. 25
 Kingsley, J. S. 1885 A, 84 (Rajæ).
 Kostlin, O. 1844 A, 425 ("rochen")
 Krivetski, A. 1917 A, 19 ("raies").
 Lavocat, A. 1885 A, 32 ("raies")
 1896 B, 194 ("raies").
 Leigh-Sharp, W. H. 1926 A, 341 (Batoïdes).
 Leunis and Ludwig 1883 A, 788 (Batoïdes).
 Lounberg, W. 1902 A (Rajidæ).
 Lubosch, W. 1909 A, 4 ("rochen").
 Lutken, C. 1868 C (Rajæ).
 M'Donnell, R. 1864 A, 163 ("rays").
 Mantell, G. A. 1844 A, 629 ("rays").
 Meckel, J. F. 1825 A ("rochen").
 Meek, A. 1916 A, 41 (Batoïdes).
 Muller, J. 1845 A, 137 (Rajidæ).
 Muller and Henle 1838 A, 90 (Rajæ).
 Owen, R. 1845 B, 43 (Raudæ).
 1866 A, 13 (Batides).
 Parker and Haswell 1897 A, 156 (Rajidæ).
 Pompeckj, J. F. 1913 A, 1129 (Batoïdes).
 Probst, J. 1886 B, 301 ("rochen").
 Rabl, C. 1892 A, 131 (Torpedo).
 1901 A, 484 (Rajæ).
 Rafinesque, C. S. 1815 A, 93 (Platosomia).
 Rauther, M. 1913 A, 1098 (Batoïdes).
 Regan, C. T. 1906 A, 723, 752 (Hypotremata).
 Reichert K. B. 1849 A, 502 ("rochen").
 Ridewood, W. G. 1899 A, 52 ("rays").
 1921 A, 313 (Narcobatoides, Batoïdes).
 Rose, C. 1892 F, 399 ("rochen").
 1897 A, 58 ("rochen").
 Ryder, J. 1886 A, 72, 77 (Rajæ).
 Sabatier, A. 1898 A, 930 ("raies").
 Schaunsland, H. 1906 A, 393 ("rajiden").
 Schlosser, M. 1917 A, 142 ("rochen").
 Schenichen, W. 1900 A, 502 ("rochen").
 Sewertsoff, A. 1899 A, 197, 393 ("rochen").
 1926 D, 83 (Batoïdes).
 Solger, B. 1880 B, 476 ("rochen").
 Sonies, F. 1907 A, 404 ("rochen").
 Stemmann, G. 1907 A, 404 (Batoïdes).
 Stephan, P. 1900 A, 311 ("raies").
 Stromer, E. 1905 H, 216 ("rochen").
 1912 A, 20 (Batoïdes).
 Wagner, R. 1843 A ("rochen")
 Weber, E. H. 1821 A, 1060
 Wilbrand, J. B. 1824 A, 983 ("rochen").
 Williamson, W. C. 1851 A, 609 ("rays").
 Woodward, A. S. 1898 B, 40 (Batoïdes).
 1922 C, 74 (Ran).
 Zittel and Schlosser 1923 A, 72 (Masticura).

Superfamily TAMIOBATOIDÆ, new name.

TAMIOBATIDÆ Hay.

- Hay O. P. 1902 A, 315
 Abel, O. 1919 A, 133
 Arldt, T. 1923 A, 488 ("tamiobatiden").
 Bridge, T. W. 1904 A, 462.
 Gregory, W. K. 1907 D, 446
 Hay, O. P. 1902 A, 315.
 Abel, O. 1919 A, 133
 Arldt, T. 1923 A, 488
 Eastman, C. R. 1902 B, 71.
 1903 B 170.
 1907 B, 65
 Hay, O. P. 1901 B, 67, 73
 Jordan, D. S. 1923 A, 95.
 Stromer, E. 1905 F, 477.
 Trouessart, E. L. 1898 B, 8.
Tamiobatis vetustus Eastman.
 Hay, O. P. 1902 A, 315.
 Hay, O. P. 1901 B, 67.
 Jordan, D. S. 1905 A, i, 532, 551.
 1907 B, 208, 758
 1923 A, 95.
 Zittel and Woodward 1902 A, 41
 Hay, O. P. 1902 A, 315.
 Abel, O. 1919 A, 133
 Arldt, T. 1923 A, 488 (T. robustus).
 Bridge, T. W. 1904 A, 462.
 Dames, W. 1899 F, 555.
 Dean, B. 1909 C, 258.
 Eastman, C. R. 1907 B, 19.
 1908 A, 279.
 Jordan, D. S. 1905 A, i, 551.
 1907 B, 208.
 Pompeckj, J. F. 1913 A, 1129.
 Merrill, G. P. 1907 A, 20.
 Devonian (Middle or Upper); Kentucky.

Superfamily *SQUATINOIDEÆ*, new form.

Gill, T. 1882 A, 967 (*Squatinoidea*).
1885 A, lxiv (*Rhinae*).
1905 A, i, 547 (*Rhinae*).

Gill, T. 1907 B, 204 (*Rhinae*).
Jordan, D. S. 1923 A, 102 (*Squatinoidei*).

SQUATINIDÆ Owen.

Owen, R. 1868 A, 909 (Earliest?)
Ardt, T. 1907 D, 283.
1923 A, 488 ("squatimiden").
Bridge, T. W. 1904 A, 456 (*Rhmdæ*).
Dollo, L. 1889 F, 340.
Duméril, A. 1856 A, 136 (*Squatinae*).
1865 A, 462 (*Rhinae*).
Fitsinger, L. J. 1873 A, 56 (*Squatinae*).
Gill, T. 1872 C, 23.
1882 A, 967.
1885 A, lxiv.
Goodrich, E. S. 1909 A, 156
Gunther, A. 1870 A, 430 (*Rhmdæ*).
Hasse, C. 1877 A, 329 ("Fam. *Squatina*").
Hennig, E. 1921 B, 117.
Hoernes, R. 1886 A, 544.
Huber, O. 1901 A (*Rhmdæ*).
Jordan, D. S. 1905 A, i, 547; ii, 593
1907 B, 204, 759.
1923 A, 102.

Jordan and Gilbert 1882 A, 35.
Kingsley, J. S. 1885 A, 84.
Lavocat, A. 1896 B, 196 ("squatines").
Leunis and Ludwig 1883 A, 788 (*Rhmdæ*).
Mayer, P. 1886 A, 278.
Muller and Henle 1837 A, 399 (*Squatinae*).
Owen, R. 1866 A, 13 (*Squatinae*).
Pompeckj, J. F. 1913 A, 1127, 1129.
Regan, C. T. 1906 A, 723, 746, 751.
Ridewood, W. G. 1921 A, 344, 376, 395.
Schlosser, M. 1917 A, 137, 139 ("squatimiden").
Stannius, H. 1854 A, 3, seq. (*Squatinae*).
Steinmann, G. 1907 A, 402.
Terra, P. 1911 A, 200.
Van Wijhe, J. W. 1922 A, 291.
Weiler, W. 1922 A, 93.
Zittel and Koken 1911 A, 64.
Zittel and Schlosser 1923 A, 69.
Zittel and Woodward 1902 A, 39

SQUATINA Duméril. Type *S. angelus* Duméril.

Duméril, A. M. C. 1806 A, 102, 342.
Abel, O. 1906 C, 82.
1912 F, 436, fig. 317 (*Rhina*)
1919 A, 27, 124, figs. 86, 87 (*Rhina*)
1920 A, 327 (*Rhina*).
Alis, E. P. 1913 A, 325.
1923 B, 134 (*Rhina*).
Ardt, T. 1923 A, 488.
Bassani, F. 1891 A, 44.
Bridge, T. W. 1904 A, 457 (*Rhina*).
Bronn, H. G. 1848 B, 1197.
1849 A, 641.
Cuvier, G. 1814 A, 77 (*Squalus*).
1815 A, 122 (*Squalus squatina*).
Daniel, J. F. 1922 A, fig. 16.
Davidoff, M. 1879 A.
Dollo, L. 1889 F, 336.
Drevermann, F. 1910 B, 191, pl.
Duméril, A. 1856 A, 124 ("ange").
1865 A, 463 (*Rhina*).
Eastman, C. R. 1904 H, 71.
Edgeworth, F. H. 1926 A, 189.
Fraas, O. 1854 A, 782, pls. xxvii-xxix.
Fuchs, H. 1907 C, 26.
Garman, S. 1913 A, 250 (*Rhina*).
Gaupp, E. 1905 D, 874.
Gegenbaur, C. 1867 B, 410.
1870 B, 451.
1870 C, 414.
Giebel, C. G. 1855 A, 114.
Goette, A. 1878 A, 12.
Gregory, W. K. 1904 A, 56, 58.
Günther, A. C. 1870 A, 430 (*Rhina*).
Hasse, C. 1877 A, 328.
1878 A, 169.
Haswell, W. A. 1884 A, 73.
Heilprin, A. 1887 A, 300.
Hennig, E. 1921 B, 117.

Huxley, T. H. 1863 F, 373, figs. 32, 33
1876 E, 115.
Jaekel, O. 1899 A, 277 (*Rhina*).
Jordan, D. S. 1905 A, i, 548.
1907 B, 205.
1917 A, 75
1923 A, 102.
Jordan and Beal 1913 A, 254.
Jordan and Evermann 1917 A, 75.
Jordan and Gilbert 1882 A, 35.
Jordan and Hannibal 1923 A, 58.
Kesteven, H. L. 1922 A, 315.
1926 A, 136, figs. 4-6.
Kingsley, J. S. 1912 B, 77, fig 75
1925 A, 30, 67, figs. 31, 72.
Kner, R. 1860 B, 816.
Kostlin, O. 1844 A.
Leigh-Sharpe, W. H. 1926 A, 341 (*Rhina*).
Lerche, M. 1906 C, 422.
1908 A, 230, pl. iii, figs. 1-5, text-fig. 1.
Leunis and Ludwig 1883 A, 788 (*Rhina*).
M'Donnell, R. 1864 A, 167 ("angel-fish").
Marck, W. 1885 A, 262, pl. xxv.
Mayer, P. 1886 A, 239, 278
Meckel, J. F. 1825 A.
Miller, H. 1851 A, 92.
Mivart, St. G. 1871 B, 391, pl. liii, fig. 5.
1878 B, 332.
Muller and Henle 1837 A, 399.
1837 B, 399.
1838 A, 89.
Newton, E. T. 1891 A, 112, pl. ix, figs 11-11c
Norman, E. W. 1926 A, 449, fig. 55.
Owen, R. 1845 B, 43, 50, pl. x, fig. 2.
1848 B, 87.
1866 A, 78.
1868 A, 909.
Pompeckj, J. F. 1913 A, 1127, fig. 30.

- Priem, F. 1908 B, 76, 92.
 Probst, J. 1886 B, 304.
 Rabinerson, A. 1925 A, 442, fig. 3 (*Squatina*);
 516, fig. 1 (*Rhina*).
 Rabl, C. 1901 A, 523.
 Regan, C. T. 1906 A, 751, figs. 115, 121.
 Reus, O. M. 1893 A, 504.
 Ridewood, W. G. 1895 B, 431
 1921 A, 315, 326, 376, fig. 25.
 Schaunslund, H. 1906 A, 407.
 Schmalhausen, J. J. 1913 A, 10.
 Seferov, S. 1911 A, 10, pl. 1.
 Stannius, H. 1854 A, 81, 82, 88, 98.
 Steinhart, O. 1903 A, 20
 Storms, R. 1891 A, 147.
 1894 A, 75, pl. vi.
 Ussow, S. 1900 A, 233.
 Van Wyhe, J. W. 1922 A, 291.
 Versluys, J. 1922 B, 98.
 Weiler, W. 1922 A, 93, pls. i-iii.
 1889 I, 2, figs 3-5
 Woodward, A. S. 1888 L, 144, pl. vu, figs. 1-6.

- Woodward, A. S. 1888 F, 289, pl. x; text-fig. 1.
 1912 A (1911), 223.
 Zittel and Koken 1911 A, 64.
 Zittel and Schlosser 1923 A, 69, fig. 116
 Zittel and Woodward 1902 A, 38.

Squatina lerichei Jordan and Beal.

- Jordan and Beal 1913 A, 253, fig. B.
 Jordan and Hannibal 1923 A, 50, pl. iii, figs.
 b, c, i, j.
 Miocene (Monterey); California.

Squatina occidentalis Eastman.

- Eastman, C. R. 1904 H, 71, pl. xxviii, fig. 1.
 Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert), Maryland.

Squatina sp. indet.

- Hussakof, L. 1908 A, 36. Eocene; South Carolina

Superfamily *RAJOIDÆ*, new form.

- Hay, O. P. 1902 A, 315 (*Pachyura*)
 Bridge, T. W. 1904 A, 457 (*Batoidei*).
 Fowler, H. W. 1911 A, 80 (*Sarcura*).
 Garman, S. 1913 A, 257 (*Rhinobatoidea*); 258,
 259 (*Raioidei*)
 Gill, T. 1873 F, 12 (*Raioidei*).
 Goodrich, E. S. 1909 A, 159 (*Rhinoraji*).
 Jordan, D. S. 1905 A, i, 519, 549 (*Batoidei*).

- Jordan, D. S. 1907 B, 206 (*Bathoidei*).
 1923 A, 102 (*Sarcura*).
 Pompeckj, J. F. 1913 A, 1129 (*Rhinoraji*).
 Rauther, M. 1913 A, 1098 (*Rhinoraji*).
 Regan, C. T. 1906 A, 724, 753 (*Batoidei*).
 Zittel and Koken 1911 A, 65 (*Rhinorajidae*).
 Zittel and Schlosser 1923 A, 71 (*Rhinorajidae*)

RAJIDÆ Bonaparte.

- Bonaparte C. L. 1831 A, 99
 Hay, O. P. 1902 A, 315.
 Abel, O. 1908 E, 409 ("rochen").
 Anthony, R. 1912 A ("raes").
 Ardit, T. 1907 D, 283.
 1923 A, 489.
 Backman, G. 1913 A, 8 ("rajiden")
 1915 A (*Randæ*).
 Bonaparte, C. L. 1839 A, 3, 6.
 Braus, H. 1904 A, 405 ("rajiden").
 Bridge, T. W. 1904 A, 461 (*Randæ*).
 Bronn, H. G. 1849 A, 830, seq
 Carus, V. 1875 A, 604
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246 (*Raidæ*).
 Cuvier, G. 1801 A, 26 ("raes").
 1815 A, 123 ("raes").
 Day, E. C. H. 1865 A, 565 (*Randæ*).
 Dollo, L. 1889 F, 340
 1904 C, 50.
 1910 A, 396 ("raes").
 1922 A, 218 ("raes").
 Fitzinger, L. J. 1873 A, 57 (*Rajæ*).
 Furbringer, K. 1903 A, 369 ("rajiden").
 Garman, S. 1913 A, 316.
 Gaupp, E. 1905 D, 842 (*Rajæ*)
 Gill, T. 1908 B, 160 (*Randæ*)
 Goodrich, E. S. 1909 A, 160
 Hay, O. P. 1901 A, 545
 Hoernes, R. 1886 A, 545.
 Huber, O. 1901 A, 636.

- Imms, A. D. 1905 A, 46.
 Jaekel, O. 1909 D, 717.
 Jordan, D. S. 1905 A, i, 551; ii, 588.
 1907 B, 208, 759.
 1923 A, 103.
 Jordan and Gilbert 1882 A, 39 (*Randæ*).
 Kerr, J. S. 1900 A, 229 ("rays")
 Kingsley, J. S. 1885 A, 87.
 Klaatsch, H. 1893 C, 181.
 Leigh-Sharp, W. H. 1926 A, 341 (*Randæ*).
 Leriche, M. 1906 C, 273.
 Leunis and Ludwig 1883 A, 790.
 Lubosch, W. 1909 A, 4 ("rochen").
 Mayer, P. 1886 A, 273.
 Muller, E. 1909 A, 512 ("rochen").
 Owen, R. 1845 B, 43 (*Randæ*).
 Pompeckj, J. F. 1913 A, 1130
 Rabinerson, A. 1925 A, 442, 445, 518 ("rochen").
 Radcliffe, L. 1916 A, 271
 Rauther, M. 1913 A, 1099
 Regan, C. T. 1906 A, 724, 755 (*Raidæ*).
 Ridewood, W. G. 1921 A, 386 (*Randæ*).
 Roth, W. 1911 A, 546, 547.
 Sabatier, A. 1903 B, 1218 ("rajides")
 1904 A, 252 ("raes")
 Schaunslund, H. 1906 A, 407.
 Terra, P. 1911 A, 203.
 Wallace, A. R. 1876 A, ii, 462 (*Raidæ*).
 Zittel and Koken 1911 A, 66 (*Rajinae*).
 Zittel and Schlosser 1923 A, 72 (*Rajinae*).
 Zittel and Woodward 1902 A, 41.

RAJA Linn. Type *R. batis* Linn.

- Hay, O. P. 1902 A, 315.
 Abel, O. 1906 C, 82.
 1908 E, 409.
 Agassiz, L. 1874 A, 131.
 Allis, E. P. 1915 A, 577 (Raia).
 Arldt, T. 1923 A, 489.
 Backman, G. 1913 A.
 Beer, G. R. 1926 A, 273, fig. 7.
 Braus, H. 1901 B, 176, text-fig. 8.
 Bridge, T. W. 1904 A, 461, 753 (Raia).
 Briquel, P. 1898 A, 16.
 Bronn, H. G. 1848 B, 1076.
 1849 A, 639.
 Carter, O. 1875 A, 67, pl. iv, fig. 4.
 Coulon, L. 1903 A, 132 (Raia).
 Daniel, J. F. 1922 A, figs. 18, 66, 71.
 Dohrn, A. 1884 A, 139.
 Dollo, L. 1910 A, 394.
 Duméril, A. 1856 A, 137 ("raie").
 Eastman, C. R. 1904 H, 71.
 Fahrenholz, C. 1915 A, 407.
 Fuchs, T. 1900 A, 6, pl., figs. 1, 2.
 1907 C, 26.
 Garman, S. 1913 A, 317 (Raia).
 Gaupp, E. 1898 B, 880.
 1905 D, 897.
 Gegenbaur, C. 1870 B, 449, pl. xv, fig. 11.
 1870 C, 406.
 Giebel, C. G. 1855 A, 117.
 Goette, A. 1878 A, 12.
 Goodrich, E. S. 1906 A, 345.
 1909 A, 515, figs.
 Gregory, W. K. 1904 A, 62 (Raia).
 Haller, G. 1923 A, 96, fig. 1.
 Hamburger, R. 1904 A, 73.
 Hay, O. P. 1901 B, 68.
 Hoeven, J. 1822 A.
 Hoffmann, L. 1912 A, 241, pls. xvii, xxi.
 Huxley, T. H. 1853 A ("skate").
 1876 E, 115 (Raia).
 Imms, A. D. 1905 A, 46.
 Jacobshagen, E. 1920 A, 92.
 1923 A, 175.
 Jaekel, O. 1901 A, 552.
 1909 D, 718, fig. 9.
 Jordan, D. S. 1905 A, i, 552, ii, 588.
 1907 B, 209.
 1917 A, 11.
 1923 A, 103.
 Jordan and Evermann 1917 A, 11.
 Jordan and Gilbert 1882 A, 39 (Raia).
 Kehler, F. A. 1896 A, 349.
 Kingsley, J. S. 1925 A, 235 (Raia).
 Köstlin, O. 1844 A.
 Kner, R. 1860 B, 317.
 Leigh-Sharpe, W. H. 1921 A, 359.
 1924 A, 567, figs. 1-15 (Raia).
 1926 A, 352, figs. 5-8 (Raia).
 Leriche, M. 1906 C, 420.
 Leydig, F. 1852 A.
 Lubosch, W. 1909 A, 3, fig. 4.
 Lutken, C. L. 1874 A, 318.
 Mayer, P. 1886 A, 231.
 Meckel, J. F. 1825 A.
 Meek, A. 1916 A, 42, 411 (Raia).
 Meyer, G. H. 1847 A, 87.
 Muller, E. 1909 A, 512.
 Norman, E. W. 1926 A, 449, fig. 55.
 Osburn, R. C. 1907 B, 179.
 Owen, R. 1845 B, 44 (Raia).
 1848 B, 196 (Raia).
 1868 A, 904 (Raia).
 Pouchet, G. 1878 A, 148, pl. iv.
 Priem, F. 1908 B, 76, figs. 31-33.
 Rabinerson, A. 1925 A, 435, 445, figs. 1, 4, 517,
 fig. 2.
 Radcliffe, L. 1916 A, 271, pl. xlv.
 Ridewood, W. G. 1896 A, 382, 386, figs. 7, 8
 (Raia).
 1921 A, 387, figs. 32-34 (Raia).
 Renne, J. 1906 A, 428 (Raia).
 Reynolds, S. H. 1897 A, 32, 114 (Raia).
 Roth, W. 1911 A, 546, pl. vi (Raia).
 Rvder, J. 1887 A, 357 (Raia).
 Sabatier, A. 1903 B, 1218 ("raie").
 Sečerov, S. 1911 A, 8.
 Somes, F. 1907 A, 445.
 Stannius, H. 1854 A.
 Steinhart, O. 1903 A, 37.
 Stephan, P. 1900 A, 311, 345, fig. 2.
 Struck, W. 1915 A, 139, fig. 6.
 Tomes, C. S. 1898 B, 444 (Raia).
 Ussow, S. 1900 A, 233.
 Williamson, C. W. 1851 A, 672, pl. xxx, fig. 28-
 32 (Raia).

Raja? dux Cope.

- Hay, O. P. 1902 A, 316.
 Eastman, C. R. 1904 H, 72, pl. xxviii, fig. 2
 (This genus?)
 Shattuck, G. B. 1904 A, cxvi (This genus?).
 Upper Miocene (Calvert); Maryland.

GRYPHODOBATIS Leidy. Type *G. uncus* Leidy.

- Hay, O. P. 1902 A, 316.
 Jordan, D. S. 1923 A, 104.

Gryphodobatis uncus Leidy.

- Hay, O. P. 1902 A, 316.
 Phosphate beds, South Carolina.

ONCOBATIS Leidy. Type *O. pentagonus* Leidy.

- Hay, O. P. 1902 A, 316.
 Hay, O. P. 1901 B, 68.
 Jordan, D. S. 1923 A, 103.
 Zittel and Woodward 1902 A, 42.

Oncobatis pentagonus Leidy.

- Hay, O. P. 1902 A, 316.
 Hay, O. P. 1927 D, 265, 268.
 Pliocene or Pleistocene (Idaho); Idaho.

PRISTIDÆ Owen.

- Owen, R. 1846 E, 51.
 Hay, O. P. 1902 A, 316.
 Abel, O. 1919 A, 124.
 Aichel, O. 1919 A, 145.
 Arldt, T. 1907 D, 283.
 1923 A, 489.
 Boulenger, G. A. 1917 B, 329.
 Braus, H. 1906 A, 182 ("pristiden").
 Bridge, T. W. 1904 A, 459.
 Cope, E. D. 1869 L, 312.
 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Dollo, L. 1889 F, 340.
 1904 C, 48.
 1922 A, 218.
 Engel, H. 1909 A, 51 ("pristiden").
 Fitzinger, L. J. 1873 A, 57 (Pristes).
 Fowler, H. W. 1911 A, 80.
 Garman, S. 1913 A, 258, 260.
 Gull, T. 1905 A, 657.
 Goodrich, E. S. 1909 A, 160.
 Gunther, A. C. 1870 A, 436.
 Hay, O. P. 1901 B, 68.
 Hoffmann, L. 1912 A, 239 ("pristiden").
 Huber, O. 1901 A, 627.
 Jacobshagen, E. 1923 A, 175 ("pristiden").
 Jordan, D. S. 1905 A, 1, 549 (Pristidæ).
 1907 B, 206, 759 (Pristidæ).
 Jordan and Gilbert 1882 A, 36.
 Radcliffe, L. 1916 A, 268.
 Rauther, M. 1913 A, 1098.
 Regan, C. T. 1906 A, 724 (Rhombatidæ).
 Pompeckj, J. F. 1913 A, 1127, 1129.
 Ridewood, W. G. 1921 A, 380 (Pristinæ).
 Roth, W. 1911 A, 544-545.
 Schlosser, M. 1917 A, 139, 141 ("pristiden").
 Stromer, E. 1905 B, 46, 55.
 1912 A, 20.
 1917 A, 23.
 1917 B, 1*.
 1925 A, 12, 18, 21.
 Wallace, A. R. 1876 A, ii, 462.
 Woodward, A. S. 1892 I, 533.
 Zittel and Koken 1911 A, 64.
 Zittel and Schlosser 1923 A, 70.
 Zittel and Woodward 1902 A, 40.

PRISTIS Linck. Type *Squalus pristis* Linn.

- Linck, H. F. 1790, Mag. neuest. Phys. Naturg, 31.
 Hay, O. P. 1902 A, 316.
 Abel, O. 1912 F, 514.
 1919 A, 124, fig. 84.
 1921 A, 156.
 Agassiz, L. 1844 D, 142.
 Aichel, O. 1919 A, 145.
 Allis, E. P. 1913 A, 327.
 Arldt, T. 1923 A, 489.
 Backman, G. 1913 A, 45.
 Bridge, T. W. 1904 A, 459, 752.
 Bronn, H. G. 1849 A, 640.
 Coulon, L. 1903 A, 130.
 Daniel, J. F. 1922 A, 32, figs. 17, 36, 38, 41.
 Dollo, L. 1889 F, 336.
 1904 C, 48.
 1910 A, 394.
 1922 A, 218.
 Duméril, A. 1856 A, 139 ("scie").
 Engel, H. 1909 A, 53.
 Fowler, H. W. 1911 A, 81.
 Fraas, E. 1907 A, 1.
 Furbinger, M. 1902 A, 172.
 Garman, S. 1913 A, 260.
 Gaupp, E. 1898 B, 860.
 Gegenbaur, C. 1870 B, 458, pl. xvi, fig. 28.
 Gervais, P. 1852 A, explan. pl. lxviii.
 1859 A, 519, pl. lxviii.
 Giebel, C. G. 1855 A, 117.
 Green, J. 1857 A, 67.
 Hay, O. P. 1901 B, 68.
 Heilprin, A. 1887 A, 300.
 Hoffman, L. 1912 A, 240, 334, pls. xiii-xvi, xviii, xix.
 Huber, O. 1901 A, 627.
 Jacobshagen, E. 1923 A, 176.
 Jaekel, O. 1902 E, 1078.
 1925 C, 182.
 Jordan, D. S. 1905 A, 199, 548.
 1907 B, 207.
 1917 A, 41, 49, 52.
 Jordan, D. S. 1923 A, 102.
 Jordan and Evermann 1917 A, 41, 49, 52.
 Jordan and Gilbert 1882 A, 37.
 Kemna, A. 1902 A, 233.
 Klaatsch, H. 1890 A, 120, 123.
 Kollicker, A. 1860 C, 144.
 Kostlin, O. 1844 A.
 Leriche, M. 1905 A, 97.
 1906 C, 420.
 1907 B, 337.
 Mayer, P. 1886 A, 250.
 Mivart, St. G. 1878 B, 311, 332.
 Muller and Henle 1838 A, 89.
 Owen, R. 1868 A, 902.
 Pappenheim, P. 1905 A, 98.
 1905 B, 397, figs. 1, 2, 6.
 Priem, F. 1908 B, 92, 105, fig. 52.
 Probst, J. 1886 B, 304.
 Rabl, C. 1901 A, 527.
 Radcliffe, L. 1916 A, 268, figs. 21, 22.
 Reynolds, S. H. 1897 A, 109, 119.
 Ridewood, W. G. 1896 A, 381, 384.
 1921 A, 385, fig. 21.
 Roth, W. 1911 A, 544, pls. vi, viii.
 Schoemichen, W. 1900 A, 504.
 Spengel, J. W. 1892 A, 147.
 Stannius, H. 1854 A.
 Stemhard, O. 1903 A, 35.
 Stephan, P. 1900 A, 409.
 Stromer, E. 1905 B, 46.
 1917 A, 8.
 1925 A, 18, 20.
 Vigliarolo, G. 1891 A, 3.
 Wagner, R. 1843 A ("sägefische").
 Williamson, W. C. 1851 A, 677 ("sawfish").
 Woodward, A. S. 1889 I, 2.
 1892 I, 533.
 1918 A, 194.
 1921 B, 38.
 Zittel and Schlosser 1923 A, 70.
 Zittel and Woodward 1902 A, 40.

***Pristis agassiz* Gibbs.**

- Hay, O. P. 1902 A, 316.
 Vigliarolo, G. 1891 A, 10, 26.
 Eocene; South Carolina.

***Pristis ambledon* Cope.**

- Hay, O. P. 1902 A, 316.
 Fowler, H. W. 1911 A, 81; fig. 39.
 Hussakof, L. 1908 A, 34, fig. 11.
 Vigliarolo, G. 1891 A, 12, 26.
 Eocene; New Jersey.

***Pristis attenuatus* Cope.**

- Hay, O. P. 1902 A, 316
 Hussakof, L. 1908 A, 34, fig. 12.
 Vigliarolo, G. 1891 A, 13, 26.
 Tertiary; North Carolina.

***Pristis brachyodon* Cope.**

- Cope, E. D. 1869 L, 312.
 Hay, O. P. 1902 A, 316.

- Vigliarolo, G. 1891 A, 12, 26.
 Eocene (Greensand); Virginia.

***Pristis curvidens* Leidy.**

- Hay, O. P. 1902 A, 316.
 Fowler, H. W. 1911 A, 82; fig. 40.
 Vigliarolo, G. 1891 A, 11, 26.
 Upper Cretaceous (Manasquan?); New Jersey.

***Pristis ensidens* Leidy.**

- Hay, O. P. 1902 A, 316.
 Vigliarolo, G. 1891 A, 12, 27
 Miocene? (Phosphate beds); South Carolina.

***Pristis* sp. indet.**

- Emmons, E. 1858 B, 243, fig. 93.
 Eocene; North Carolina.
 Tuomey, M. 1848 A, 160.
 Eocene; South Carolina.

Superfamily *DASYATOIDEÆ*, new form.

- Hay, O. P. 1902 A, 317 (Masticura).
 Fowler, H. W. 1911 A, 84.
 Garman, S. 1913 A, 259 (Dasybatoides, Mylodon, Mobuloidea)
 Goodrich, E. S. 1909 A, 163 (Centrobatoides).
 Gregory, W. K. 1907 D, 446 (Masticura).
 Jaekel, O. 1911 A, 58 (Centrobati).

- Jordan, D. S. 1905 A, 1, 549 (Batoides).
 1907 B 212 (Batoides).
 1923 A, 104 (Masticura).
 Pompeckj, J. F. 1913 A, 1130 (Centrobati).
 Ziegler, H. E. 1908 B, 656, pl. xxiii, fig. 1 (Torpedo).
 Zittel and Koken 1911 A, 66 (Masticura).
 Zittel and Schlosser 1923 A, 72 (Masticura).

PTYCHODONTIDÆ.

- Hay, O. P. 1902 A, 317.
 Abel, O. 1919 A, 139.
 Goodrich, E. S. 1909 A, 165.
 Hay, O. P. 1901 B, 68.
 Hussakof, L. 1908 A, 41.
 Jordan, D. S. 1923 A, 105.

- Pompeckj, J. F. 1913 A, 1131.
 Schlosser, M. 1917 A, 139, 141 ("ptychodontiden").
 Zittel and Koken 1911 A, 68 (Ptychodontinæ).
 Zittel and Schlosser 1923 A, 74 (Ptychodontinæ)

PTYCHODUS Agassiz. Type *P. mammillaris* Agassiz.

- Hay, O. P. 1902 A, 317.
 Abel, O. 1919 A, 139, fig. 103.
 Arlitt, T. 1907 D, 339.
 Bronn, H. G. 1848 B, 1058.
 1849 A, 648, 649.
 Canavari, M. 1916 A, 35, pls. v-xiv.
 Canestrelli, G. 1910 A, 102.
 Coulon, L. 1903 A, 118.
 Darton, N. H. 1908 A, 457.
 Deecke, W. 1913 A, 86.
 Dibley, G. E. 1911 A, 263.
 Fossa-Mancini, E. 1921 A, 195.
 Gaudry, A. 1896 A, 172, fig. 157.
 Giebel, C. G. 1855 A, 115, pl. xlviii.
 Goodrich, E. S. 1909 A, 165, fig. 128.
 Gosselet, J. A. A. 1875 A, 12, 121.
 Hay, O. P. 1901 B, 68.
 Heilprin, A. 1887 A, 300.
 Humphreys, J. 1908 A, 11.
 Jordan, D. S. 1905 A, 1, 557.
 1907 B, 214.
 1919 B, 194.
 1923 A, 105.
 Leriche, M. 1902 B, 89.
 1906 C, 73.

- Mantell, G. A. 1844 A, 607, 616, fig. 127.
 Oswald, F. 1851 A, 531.
 Pompeckj, J. F. 1913 A, 1131.
 Priem, F. 1896 B, 10.
 1908 B, 46, 49.
 Raffelt, R. 1877 A, 279.
 Regan, C. T. 1906 A, 756.
 Sauvage, E. 1867 A, 107.
 Schlosser, M. 1917 A, 142.
 Stemmman, G. 1907 A, 404.
 Stephan, P. 1900 A, 409.
 Storms, R. 1891 A, 115, 147.
 Woodward A. S. 1890 H, 38.
 1898 B, 52.
 1904 A, 133.
 1904 B, 139.
 1904 C, 190.
 1912 A, 225, text-fig. 69.
 1921 A, 180.
 1921 B, 37.
 1921 C, 180.
 1922 C, 75.
 Zittel and Koken 1911 A, 68.
 Zittel and Schlosser 1923 A, 74, figs. 127, 128.
 Zittel and Woodward 1902 A, 43.

***Ptychodus anonymus* Williston.**

Hay, O. P. 1902 A, 317.

Cretaceous (Niobrara, Benton?); Kansas.

***Ptychodus decurrens* Agassiz.**

Hay, O. P. 1902 A, 317.

Canestrelli, G. 1910 A, 102, 117.

Coulon, L. 1903 A, 119

Dibley, G. E. 1911 A, 264, pl. xvii, fig. 2, pl. xix, figs 20-24.

Fossa-Mancini, E. 1921 A, 195.

Gaudry, A. 1896 A, 172, fig. 157.

Gervais, P. 1852 A, explan. pl. lxxvii.
1859 A, 526, pl. lxxviii.Leriche, M. 1902 B, 90, 94, pl. ii, figs. 19, 20.
1906 B, 348.
1906 C, 414

Mantell, G. A. 1844 A, 617.

Oswald, F. 1851 A, 535.

Pompeckj, J. F. 1913 A, 1132, fig. 36.

Priem, F. 1896 B, 11.

1912 B, 265.

1913 A, 159

Stefano, G. 1912 B, 60, pl. ii.

Woodward A. S. 1904 A, 133, pl. xv, text-fig. 1.
1904 B, 140.1912 A, 239, pls. li, lii; text-figs. 70, 71,
76, 77.

1922 C, 75, fig. 76.

Zittel and Koken 1911 A, 68, fig. 122

Zittel and Woodward 1902 A, 43, fig. 86.

Cretaceous, Europe: Cretaceous, Arizona.

***Ptychodus janevalli* Cope.**

Hay, O. P. 1902 A, 317.

Cretaceous (Niobrara); Kansas.

***Ptychodus mammillaris* Agassiz.**

Hay, O. P. 1902 A, 318.

Canestrelli, G. 1910 A, 103.

Coulon, L. 1903 A, 118.

Dibley, G. E. 1911 A, 271, pl. xxii, figs. 3-5.

Leriche M. 1902 B, 93, pl. ii, figs 8-12.

1906 B, 348

1906 C, 418

Oswald, F. 1851 A, 535.

Priem, F. 1896 B, 11.

1908 B, pl. i, figs. 4-7.

Stefano, G. 1912 B, 61, pl. ii

Woodward, A. S. 1890 H, 39, pl. i, figs 3-14

1912 A, 230, pl. xlvii, figs. 13-27, text-
fig. 72.

Cretaceous; Europe. Cretaceous, Delaware

***Ptychodus martini* Williston.**

Hay, O. P. 1902 A, 318.

Mantell, G. A. 1844 A, 615, fig. 128

Upper Cretaceous (Niobrara); Kansas.

***Ptychodus occidentalis* Leidy.**

Hay, O. P. 1902 A, 318.

Upper Cretaceous (Niobrara); Kansas.

***Ptychodus papillosus* Cope.**

Hay, O. P. 1902 A, 318.

Upper Cretaceous; Colorado.

***Ptychodus parvulus* Whiteaves.**

Hay, O. P. 1902 A, 318.

Lambe, L. M. 1904 C, 21, 36, 41.

Upper Cretaceous (Colorado); Manitoba.

***Ptychodus polygyrus* Agassiz.**

Hay, O. P. 1902 A, 318.

Canavari, M. 1916 A

Canestrelli, G. 1910 A, 103, 114.

Coulon, L. 1903 A, 119

Dibley, G. E. 1911 A, 268, pl. xx, figs. 1, 2; pl.
xxi, figs. 1, 2.

Fossa-Mancini, E. 1921 A, 195

Leriche, M. 1902 B, 97, pl. ii, figs. 21-23.

1906 B, 348.

1906 C, 420, pl. vi.

Mantell, G. A. 1844 A, 616, pl. vi, text-fig. 130
(*P. polygyrus*).

Oswald, F. 1851 A, 535.

Priem, F. 1896 B, 11.

Stefano, G. 1912 B, 59, pl. ii.

Woodward, A. S. 1912 A, 232, pl. xlviii, figs.
12-16; pl. xlix

1890 H, 40, pl. i, figs. 15-20.

Worthen, A. H. 1890 A, 4, fig. 6.

Zittel and Woodward 1902 A, 43, fig. 85.

Upper Cretaceous; Europe: Upper Cretaceous,
Alabama, Kansas, Illinois (in glacial
drift)***Ptychodus whipplei* Marcou.**

Hay, O. P. 1902 A, 318

Cockerell, T. D. A. 1908 C, 162.

Freudenberg, W. 1921 A, 111 (*P. whipplei*).Upper Cretaceous (Niobrara); Kansas, Col-
orado, New Mexico, Mexico.***Ptychodus* sp. indet.**

Hay, O. P. 1902 A, 318.

Cannon, G. L. 1890 B, 313.

Upper Cretaceous (Niobrara); Colorado.

Gilmore, C. W. 1921 E, 590.

Lower Cretaceous (Arundel); Maryland
(*This genus?*).

Lee, W. T. 1917 A, 197.

Upper Cretaceous (Mancos); New Mexico.

McConnell, R. G. 1893 A, 48 D.

Cretaceous (Peace River); Athabasca

Reeside, J. B. 1924 A, 11, pl. iii

Upper Cretaceous (Mancos); Colorado

Tuomey, M. 1848 A, 165, 166, 208 (*"Ptychodus"*).

Tertiary; South Carolina.

PLATYCHODUS Yates. Type *Ptychodus mortoni* Mantell.

Yates, L. G. 1886 A, 20.

Hay, O. P. 1902 A, 317 (*Hemiptychodus*).Fossa-Mancini, E. 1921 A, 195 (*Hemiptychodus*).Jordan, D. S. 1923 A, 105 (*Hemiptychodus*).Pompeckj, J. F. 1913 A, 1131 (*Hemiptychodus*).

Woodward, A. S. 1889 D, 149.

Platyechodus mortoni (Mantell).

- Hay, O. P. 1902 A, 317 (Hemipterychodus).
 Dibley, G. E. 1911 A, 272, pl. xxii, figs. 7, 8 (Ptychodus).
 Freudenberg, W. 1921 A, 111 (Ptychodus).
 Hay, O. P. 1901 B, 68 (Hemipterychodus).
 Hussakof and Bryant 1919 A, 155 (Hemipterychodus).
 Lerche, M. 1902 B, 90 (Ptychodus).

- Merrill, G. P. 1907 A, 17 (Ptychodus).
 Smith, E. A. 1894 A, 230 (Ptychodus).
 Spillman, W. 1863 A (Ptychodus).
 Tuomey, M. 1850 B, 120 (Ptychodus).
 Woodward, A. S. 1912 A, 244, pl. liv, fig. 1 (Ptychodus).
 Yates, L. G. 1836 A, 20.
 Upper Cretaceous; Alabama, Mississippi, Kansas, Mexico.

DASYATIDÆ.

Unless otherwise indicated the writers, as cited, employ for this family the name Trygonidae.

- Hay, O. P. 1902 A, 318 (Dasyatidæ).
 Abel, O. 1912 F, 565.
 1919 A, 126.
 Arldt, T. 1907 D, 687.
 1923 A, 489 ("trigoniden").
 Bridge, T. W. 1904 A, 464.
 Carus, V. 1875 A, 604.
 Cope, E. D. 1891 N, 17.
 Cunningham, J. T. 1912 A, 246.
 Dollo, L. 1839 F, 341.
 1904 C, 48.
 Fitzinger, L. J. 1873 A, 57 (Trygones).
 Furbinger, K. 1903 A, 369 ("trygoniden").
 Garman, S. 1913 A, 259, 373 (Dasybatidæ).
 Gill, T. 1905 A, 658 (Dasybatidæ).
 1908 B, 160 (Dasybatidæ).
 Goodrich, E. S. 1909 A, 164.
 Gregory, W. K. 1907 D, 446 (Dasyatidæ).
 Hay, O. P. 1901 B, 68 (Dasyatidæ).
 Hoernes, R. 1836 A, 545.
 Huber, O. 1901 A, 629.
 Imms, A. D. 1905 A, 46.

- Jordan, D. S. 1905 A, i, 555 (Dasyatidæ).
 1907 B, 212, 759 (Dasyatidæ).
 1923 A, 104 (Dasyatidæ).
 Jordan and Gilbert 1882 A, 45.
 Jordan and Hannibal 1923 A, 59 (Urolophidæ).
 Kingsley, J. S. 1885 A, 88.
 Leigh-Sharp, W. H. 1926 A, 341.
 Lerche, M. 1906 C, 273.
 1907 B, 339.
 Leunis and Ludwig 1883 A, 791.
 Lonnberg, E. 1910 A, 11.
 Pompeckj, J. F. 1913 A, 1131.
 Porta, A. 1905 A, 234.
 Radcliffe, L. 1916 A, 273 (Dasybatidæ).
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1906 A, 724, 756 (Dasybatidæ).
 Roth, W. 1911 A, 547.
 Schlosser, M. 1917 A, 145 (Trigoninæ).
 Stannius, H. 1854 A (Trygones).
 Terra, P. 1911 A, 203.
 Wallace, A. R. 1876 A, ii, 463.
 Woodward, A. S. 1904 B, 140.
 Zittel and Koken 1911 A, 66.
 Zittel and Schlosser 1923 A, 72 (Trigoninæ).
 Zittel and Woodward 1902 A, 42.

DASYATIS Rafinesque. Type *D. ujo* = *Raja pastinica* Linn.

Unless otherwise indicated the writers, as cited, use for this genus the name Trygon.

- Hay, O. P. 1902 A, 319 (Dasyatis).
 Abel, O. 1919 A, 131, fig. 93.
 Agassiz, L. 1874 A, 134.
 Allis, E. P. 1923 B, 124.
 Arldt, T. 1923 A, 489 (Dasyatis, Trygon).
 Baudelot, E. 1873 A, 95.
 Bridge, T. W. 1904 A, 464.
 Cockerell, T. D. A. 1906 A, 160 (Dasyatis).
 Dollo, L. 1910 A, 394.
 Duméril, A. 1856 A, 137 ("pastenague").
 Evans, H. M. 1916 A, 431, figs. 1-7.
 1923 A, 4, 28, pl. i, text-figs. 1-3.
 Fahrenholz, C. 1915 A, 407.
 Furbinger, K. 1903 A, 368.
 Furbinger, M. 1903 A, 625.
 Garman, S. 1913 A, 7, 373, 375 (Dasyatus).
 Gaupp, E. 1898 B, 860.
 1905 D, 870.
 Gegenbaur, C. 1870 C, 422.
 Goodrich, E. S. 1906 A, 350.
 Hamburger, R. 1904 A, 73 (Dasyatis).
 Haseman, J. D. 1912 A, 98 (Dasyatis).
 Hay, O. P. 1901 B, 68 (Dasyatus).
 Heilprin, A. 1887 A, 294, 300.
 Huber, O. 1901 A, 629, pl. xxvii.
 Jordan, D. S. 1905 A, i, 556; ii, 566 (Dasyatis).
 1907 B, 213 (Dasyatis).

- Jordan, D. S. 1917 A, 78.
 1923 A, 104 (Dasyatus).
 Jordan and Evermann 1917 A, 78 (Dasyatis).
 Jordan and Gilbert 1882 A, 47, 65, 879.
 Klaatsch, H. 1901 A, 435.
 Leigh-Sharp, W. H. 1926 A, 341.
 Lerche, M. 1905 A, 100.
 1906 C, 422.
 Leunis and Ludwig 1883 A, 791.
 Leydig, F. 1852 A (Dasyatus).
 Muller and Henle 1838 A, 90.
 Norman, E. W. 1926 A, 452.
 Owen, R. 1845 B, 44.
 Pompeckj, J. F. 1913 A, 1131.
 Porta, A. 1905 A, 234.
 Rabinerson, A. 1925 A, 448, 453, fig. 4; 518, fig. 1.
 Radcliffe, L. 1916 A, 273, pl. xlii (Dasybatus).
 Reynolds, S. H. 1897 A, 106, 114.
 Roth, W. 1911 A, 547, pls. vi, vii.
 Schlosser, M. 1917 A, 144 (Xiphotrygon).
 Sewertzoff, A. N. 1923 A, 391.
 Stannius, H. 1854 A.
 Steinhart, O. 1903 A, 39.
 Solger, B. 1880 B, 476, pl. xxxix.
 Zittel and Koken 1911 A, 66.
 Zittel and Schlosser 1923 A, 72 (Xiphotrygon).
 Zittel and Woodward 1902 A, 42.

***Dasyatis carolinensis* (Emmons).**

Hay, O. P. 1902 A, 319.

Miocene; North Carolina, Virginia.

***Dasyatis hastata?* (De Kay).**

Hay, O. P. 1902 A, 319.

Hay, O. P. 1923 A, 363.

Husakof, L. 1908 A, 30 (This species?).

Leidy, J. 1860 B, 119, pl. xxvii, figs. 1, 2 (Pastinica).

Radcliffe, L. 1916 A, 273 (*Dasybatus*).
Pleistocene; South Carolina.***Dasyatis* sp. indet.**

Hay, O. P. 1902 A, 319.

Clark and Miller 1912 A, 167, 168 (*Dosyatus*).

Hay, O. P. 1923 A, 370.

Miocene (Calvert); Virginia: Pleistocene; Georgia.

HELIOBATIS Marsh. Type *H. radians* Marsh.

Marsh, O. C. 1877 D, 261.

Hay, O. P. 1902 A, 319 (*Dasyatis* in part).Cope, E. D. 1879 O (*Xiphotrygon*).1884 O, 49 (*Xiphotrygon*)Jordan, D. S. 1923 A, 104 (*Helobatis*, *Xiphotrygon*).Regan, C. T. 1906 A, 756 (*Xiphotrygon*).Seeley, H. G. 1886 A, 412 (*Xiphotrygon*).Woodward, A.-S. 1889 D, 153 (*Xiphotrygon*).Zittel, K. A. 1890 A, 105 (*Xiphotrygon*).Zittel and Woodward 1902 A, 42 (*Xiphotrygon*).***Heliobatis radians* Marsh.**

Marsh, O. C. 1877 D, 256.

Hay, O. P. 1902 A, 319 (*Dasyatis*).Cockerell, T. D. A. 1908 C, 162 (*Dasyatis*).Jordan, D. S. 1905 A, 1, 557 (*Xiphotrygon acutidens*).1907 B, 214 (*X. acutidens*).

Lower Eocene (Green River); Wyoming

UROBATIS Garman. Type *Leiobatis sloani* Blainv.

Garman, S. 1913 A, 373, 401.

Abel, O. 1906 C, 82 (*Urolophus*).Ardt, T. 1923 A, 489 (*Urolophus*).Duméril, A. 1856 A, 144 (*Urolophus*)Haswell, W. A. 1884 A, 103 (*Urolophus*).

Jordan, D. S. 1923 A, 104.

Jordan and Evermann 1896 A, 79 (*Urolophus*)Jordan and Gilbert 1882 A, 46 (*Urolophus*).Leriche, M. 1906 C, 423 (*Urolophus*).Müller and Henle 1838 A, 90 (*Urolophus*).1841 A, 173 (*Urolophus*)Parker and Haswell 1897 A, 160, fig. 788 (*Urolophus*).***Urobatis halleri* (Cooper).**Cooper, J. G. 1863, Proc. Calif. Acad. Sci. ii, 96 (*Urolophus*)Arnold, R. 1903 A, 47, 346 (*Urolophus*. This species?).Daniel, J. F. 1922 A, 10, 32, figs. 10-20, 36, 42 (*Urolophus*)Garman, S. 1913 A, 403 (*Urobatis*).

Hav., O. P. 1927 D, 171.

Jordan, D. S. 1907 A, 120 (*Urolophus*. This species?).Jordan and Evermann 1896 A, 80 (*Urolophus*).Jordan and Gilbert 1919 A, 62 (*Urobatis*).

Jordan and Hannibal 1923 A, 59

Recent; Coast of California to northern Mexico: Pleistocene; California.

MYLIOBATIDÆ Owen.

Owen, R. 1846 E, 51. (See Richardson).

Hay, O. P. 1902 A, 319.

Abel, O. 1906 C, 84.

1912 F, 565.

1919 A, 128.

Agassiz, L. 1874 A, 133.

Ardt, T. 1907 D, 666.

1923 A, 489 ("myliobatiden").

Bridge, T. W. 1904 A, 465, 747.

Carus, V. 1875 A, 604.

Cope, E. D. 1891 N, 17.

Cunningham, J. T. 1912 A, 246

Dollo, L. 1889 F, 341.

1904 C, 48.

Duméril, A. 1856 A, 145 ("myliobatides").

Fitzinger, L. J. 1873 A, 57 (*Myliobatæ*).

Fowler, H. W. 1911 A, 84.

Garman, S. 1908 A, 251.

1913 A, i, 259, 427 (*Myliobatidæ*); 259 (*Mylodei*, in part).

Goodrich, E. S. 1909 A, 165.

Gill, T. 1865 B, 135 (*Myliobatides*, *Myliobatinae*, *Aetobatinae*).

Gregory, W. K. 1907 D, 446.

Hay, O. P. 1901 B, 68

Hoernes, R. 1886 A, 545.

Huber, O. 1901 A, 634.

Imms, A. D. 1905 A, 46.

Jaekel, O. 1902 B, 134 ("myliobatiden")

1903 G, 389 ("myliobatiden").

Jordan, D. S. 1905 A, 1, 557.

1907 B, 214.

1923 A, 105.

Jordan and Gilbert 1882 A, 49.

Kingsley, J. S. 1885 A, 89.

Leriche, M. 1907 B, 339.

Leunis and Ludwig 1883 A, 792.

Lonnberg, E. 1910 A, 11.

Pompeckj, J. F. 1913 A, 1131.

Porta, A. 1905 A, 234.

Radcliffe, L. 1916 A, 277.

Rauther, M. 1913 A, 1099.

Richardson, J. 1846 A, 198.

Roth, W. 1911 A, 547-548.

Schlosser, M. 1917 A, 145 (*Myliobatinae*).

Stromer, E. 1904 A, 249 ("myliobatiden").

1904 B, 203 ("myliobatiden").

- Stromer, E. 1905 B, 38 (Mylobatidæ); 38, 43 (Mylobatinæ).
 1912 A, 20.
 Terra, P. 1911 A, 203.
 Wallace, A. R. 1876 A, ii, 463.

MYLOBATIS Duméril.

- Hay, O. P. 1902 A, 319.
 Abel, O. 1912 F, 435, fig. 320.
 1919 A, 131, figs. 93, 95, 96.
 Agassiz, L. 1874 A, 133.
 Allis, E. P. 1923 B, 124.
 Arldt, T. 1923 A, 489.
 Bassani, F. 1905 A, 15.
 Berry, E. W. 1916 A, 360.
 Botti, U. 1877 A, 371 (Mylobates).
 Bridge, T. W. 1904 A, 465.
 Briquel, P. 1898 A, 16.
 Bronn, H. G. 1848 A, 763 (Mylobates).
 1849 A, 638.
 Coulon, L. 1903 A, 131.
 Daniel, J. F. 1922 A, figs. 9, 122, 125.
 Deecke, W. 1913 A, 83 (Mylobates).
 Dewey, M. 1918 A, 143, fig. 3.
 Duméril, A. 1856 A, 138 (Mylobates).
 Eastman, C. R. 1901 B, 98.
 1904 H, 73.
 Fowler, H. W. 1911 A, 84.
 Furbringer, K. 1903 A, 369.
 Furbringer, M. 1903 A, 625.
 Garman, S. 1908 A, 252.
 1913 A, 428.
 Gaupp, E. 1905 D, 870.
 Gegenbaur, C. 1870 C, 406.
 Gervais, P. 1852 A, explan. pls. lxxvii, lxxix (Mylobates).
 1859 A, 518, pls. lxxvii, lxxix (Mylobates).
 Giebel, C. G. 1855 A, 117, pl. xlviii (Mylobates).
 Goodrich, E. S. 1909 A, 166, fig. 130.
 Harless, E. 1850 A, 843, pls. xxiii-xxv (Mylobates).
 Haswell, W. A. 1884 A, 78.
 Heilprin, A. 1887 A, 297, 300.
 Huber, O. 1901 A, 634.
 Humphreys, J. 1908 A, 12 (Mylobates).
 Jacobshagen, E. 1923 A, 176.
 Jaekel, O. 1911 A, 58, fig. 57.
 Jordan, D. S. 1905 A, i, 557; ii, 582.
 1907 B, 214.
 1920 C, 573.
 1923 A, 105.
 Jordan and Beal 1913 A, 256.
 Jordan and Gilbert 1882 A, 50.
 Kingsley, J. S. 1925 A, 233, fig. 246.
 Kner, R. 1860 B, 817.
 Kostlin, O. 1844 A.
 Leigh-Sharpe, W. H. 1926 A, 342.
 Leriche, M. 1902 B, 101.
 1905 A, 102.
 1906 C, 418.
 Leunis and Ludwig 1883 A, 792.
 Mantell, G. A. 1844 A, 629.
 Meckel, J. F. 1825 A (Raja).
 Muller and Henle 1838 A, 91.
 Owen, R. 1868 A, 894.
 Priem, F. 1903 A, 396.

- Woodward, A. S. 1898 B, 53.
 1904 B, 140.

- Zittel and Koken 1911 A, 67 (Mylobatinæ).
 Zittel and Schlosser 1923 A, 73 (Mylobatinæ).
 Zittel and Woodward 1902 A, 43.

Type *Raja aquila* Linn.

- Priem, F. 1904 A, 285.
 1908 B, 75, 93, figs. 48, 49.
 1912 A, 242.
 Probst, J. 1886 B, 305 (Mylobates).
 Radcliffe, L. 1916 A, 277, pl. xlviii.
 Ridewood, W. G. 1896 A, 381, 384.
 1921 A, 392, fig. 37.
 Sabatier, A. 1903 B, 1218 (Mylobates).
 Semon, R. 1901 B, 132.
 Series, M. 1852 A, 117 (Mylobates).
 Sloan, E. 1908 A, 278, 472.
 Stannius, H. 1854 A.
 Stefano, G. 1912 A, 413.
 Stephan, P. 1900 A, 409.
 Storms, R. 1891 A, 120 (Mylobates).
 Stromer, E. 1904 A, 249.
 1904 B, 203.
 1905 B, 39.
 1917 A, 19 (Mylobates).
 Terra, P. 1911 A, 97, fig. 26.
 Tomes, C. S. 1898 C, 346 (Mylobatis).
 Weidenreich, F. 1926 A, 47.
 Weiler, W. 1922 A, 96, pls. i, iii.
 Woodward, A. S. 1889 I, 3, figs. 1, 2.
 Zittel and Koken 1911 A, 67.
 Zittel and Schlosser 1923 A, 73, figs. 123-125.
 Zittel and Woodward 1902 A, 44.

Mylobatis bisulcus Marsh.

- Hay, O. P. 1902 A, 320.
 Fowler H. W. 1911 A, 85, 87.
 Eocene (Shark River), New Jersey.

Mylobatis copeanus Clark.

- Hay, O. P. 1902 A, 320.
 Clark and Miller 1912 A, 117, 118.
 Eastman, C. R. 1901 B, 99, pl. xu, figs. 1, 2;
 pl. xiii, figs. 2a, 2b, 6, 7a, 7b.
 Leriche, M. 1906 C, 187 (Syn. of *M. dixonii*).
 Eocene (Nanjemoy and Aqua); Virginia,
 Maryland.

Mylobatis fastigiatus Leidy.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 74.
 Fowler, H. W. 1911 A, 85, figs. 41, 42.
 Hussakof, L. 1908 A, 32.
 Eocene (Shark River); New Jersey.

Mylobatis frangens Eastman.

- Eastman, C. R. 1904 H, 75, pl. xxix, fig. 3.
 Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert); Maryland.

Mylobatis gigas Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73, pl. xxviii, fig. 3; pl.
 xxx, fig. 1.
 Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert); Maryland.

Myliobatis glottoides Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 83, fig. 43.
 Hussakof, L. 1908 A, 32, fig. 8.
 Eocene (Shark River); New Jersey.

Myliobatis holmesii Gibbs.

- Hay, O. P. 1902 A, 320.
 Cope, E. D. 1867 C, 140.
 Gibbs, R. W. 1850 B (No description).
 1850 G, 299, pl. xli, figs. 1-3.
 Leidy, J. 1877 A, 234.
 Woodward, A. S. 1889 D, 122.
 (Phosphate beds); South Carolina.

Myliobatis jugosus Leidy.

- Hay, O. P. 1902 A, 320.
 Fowler, H. W. 1911 A, 90, fig. 45.
 Leriche, M. 1905 A, 182, fig. 52 (This species?).
 1906 B, 352 (This species?).
 1906 C, 192, fig. 38.
 Eocene (Manasquan?); New Jersey.

Myliobatis kummeli Fowler.

- Fowler, H. W. 1911 A, 95, figs. 49, 50.
 Miocene (Kirkwood); New Jersey.

Myliobatis leidyii Hay.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 91, fig. 46.
 Upper Cretaceous (Manasquan); New Jersey.

Myliobatis magister Leidy.

- Leidy, J. 1877 A, 233, pl. xxxii, fig. 7.
 Eastman, C. R. 1901 B, 100, pl. xii, fig. 3; pl. xiii, figs. 1a, 1b.
 1904 H, 74.
 Fowler, H. W. 1911 A, 89, fig. 44.
 Leidy, J. 1876 E, 86 (No description).
 Upper Eocene (Manasquan), New Jersey.
 Eocene, South Carolina.

Myliobatis mordax Leidy.

- Hay, O. P. 1902 A, 320.
 Phosphate beds, South Carolina.

Myliobatis obesus (Leidy).

- Hay, O. P. 1902 A, 320 (*M. rugosus* in part).
 Fowler, H. W. 1911 A, 93, fig. 48.
 Berry, E. W. 1916 A, 360.
 Upper Cretaceous (Homerstown, Vincetown, Manasquan), New Jersey: (Monmouth); Maryland.

Myliobatis pachyodon Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 74, 75, pl. xxix, fig. 2.
 Shattuck, G. B. 1904 A, xcvi.
 Miocene (Calvert); Maryland.

Myliobatis pachyrhizodus Fowler.

- Fowler, H. W. 1911 A, 97, fig. 51.
 Cretaceous (Manasquan); New Jersey.

Myliobatis rectidens Cope.

- Hay, O. P. 1902 A, 320.
 Eastman, C. R. 1904 H, 73.
 Fowler, H. W. 1911 A, 92, fig. 47.
 Hussakof, L. 1908 A, 32, fig. 9.
 Upper Cretaceous (Navesank-Homerstown); New Jersey.

Myliobatis rugosus Leidy.

- Hay, O. P. 1902 A, 320.
 Eocene, New Jersey.

Myliobatis transversalis Gibbs.

- Hay, O. P. 1902 A, 320.
 Eocene; South Carolina.

Myliobatis vicomicanus Cope.

- Hay, O. P. 1902 A, 320.
 Miocene (Calvert); Maryland.

Myliobatis sp. indet.

- Hay, O. P. 1902 A, 320.
 Hay, O. P. 1923 A, 381. Pleistocene (Early); Florida.
 Hopkins, F. V. 1871 A, 13. Eocene; Louisiana.
 Tuomey, M. 1848 A, 165, 166. Eocene; South Carolina.

MESOBATIS Leidy. Type *Aetobatus eximius* Leidy.

- Hay, O. P. 1902 A, 320.
 Jordan, D. S. 1923 A, 105.

Mesobatis eximius Leidy.

- Hay, O. P. 1902 A, 320.
 Phosphate beds; South Carolina.

STOASODON Cantor. Type *Raja narinari* (Euphrasen).

- Unless otherwise indicated the authors, as quoted, use *Aetobatus*.
 Hay, O. P. 1902 A, 321.
 Abel, O. 1906 C, 82 (*Aetobatus*).
 1912 F, 545 (*Aetobatus*).
 Arldt, T. 1923 A, 489 (*Aetobatus*).
 Bridge, T. W. 1904 A, 465, 729 (*Aetobatus*).
 Bronn, H. G. 1848 A, 18 (*Aetobatus*).
 1849 A, 638 (*Aetobatus*).
 Coulon, L. 1903 A, 131 (*Aetobatus*).
 Duméril, A. 1856 A, 145 (*Aetobatus*).

- Eastman, C. R. 1901 B, 101 (*Aetobatus*).
 Fowler, H. W. 1911 A, 98 (*Aetobatus*).
 Garman, S. 1903 A, 252.
 1913 A, 428.
 Giebel, C. G. 1855 A, 117 (*Aetobatus*).
 Gill, T. 1865 B, 135 (*Aetobatus*).
 Gudger, E. W. 1914 A.
 Hamburger, R. 1904 A, 73.
 Hay, O. P. 1901 B, 68.
 1909 C, 59.
 Heilprin, A. 1887 A, 300 (*Aetobatus*).

Jordan, D. S. 1905 A, i, 557.

1907 B, 214.

1919 B, 242.

1923 A, 105.

Jordan and Beal 1913 A, 256 (Stoasodon).

Jordan and Evermann 1917 A, 95.

Jordan and Gilbert 1882 A, 50, 579 (Stoasodon).

Jordan and Hannibal 1923 A, 59 (Aetobatus).

Klaatsch, H. 1901 A, 435.

Lerche, M. 1905 A, 107.

1906 C, 411 (Aetobatus).

Müller and Henle 1833 A, 91 (Aetobatis).

Owen, R. 1845 B, 46, pl. xxv, figs. 3, 4 (Mylobates, Aetobatis).

Priem, F. 1903 A, 399.

1904 A, 286.

1908 B, 76, 94 (Aetobatus).

Radcliffe, L. 1916 A, 278.

Ridewood, W. G. 1896 A, 384, 388.

Stromer, E. 1904 A, 200 (Aetobatus).

1904 B, 205, fig. 3 (Aetobatus).

Stannius, H. 1854 A (Aetobatis).

Woodward, A. S. 1889 I, 5 (Aetobatus).

Zittel and Koken 1911 A, 68.

Zittel and Schlosser 1923 A, 74 (Aetobatus).

Zittel and Woodward 1902 A, 44.

Stoasodon aragonis Jordan and Hannibal.

Jordan and Hannibal 1923 A, 60, 61, pl. iii, figs m, p (Aetobatus).

Eocene (Arago); Oregon, California: (Tejon); California.

Stoasodon arcuatus (Agassiz).

Hay, O. P. 1902 A, 321 (Aetobatus).

Clark and Miller 1912 A, 117, 118 (Aetobatus).

Eastman, C. R. 1901 B, 102, pl. xiii, figs 3a, 3b, 8 (Aetobatus).

1904 H, 76, pl. xxix, fig 5 (Aetobatus).

Lerche, M. 1906 A, 295 (Aetobatus).

Priem, F. 1912 A, 225 (Aetobatus).

Shattuck, G. B. 1904 A, xcvi (Aetobatus).

Miocene (Calvert and St. Mary's); Maryland; Eocene (Nanjemoy and Aquia); Maryland, Virginia.

Stoasodon merriami (Jordan and Beal).

Jordan and Beal 1913 A, 245, 256, fig 6 (Mylobatus).

Jordan and Gilbert 1919 A, 23 (Mylobatus).

Jordan and Hannibal 1923 A, 60, pl. iii, fig s; pl. iv, fig. 1 (Aetobatus).

Miocene (Monterey); California.

Stoasodon narinari (Euphrasen).

Euphrasen, Bengt. And., 1790, Vet. Akad. Nym Handl., xi, 217 (Raja).

Coles, R. J. 1910 A, 338 (Aetobatus).

Duméril, A. 1865 A (1870), 641 (Aetobatus).

Gudger, E. W. 1910 A, 58 (Aetobatus).

1914 A, pls. and figs. (Aetobatus)

Hay, O. P. 1917 E, 43 (Aetobatus)

1923 A, 382, 383 (Aetobatus).

Jaekel, O. 1911 A, 58 (Aetobatus)

Jordan, D. S. 1905 A, i, 557, fig. 349 (Aetobatus).

1907 B, 214, fig 155 (Aetobatus).

Jordan and Evermann 1896 A, 88 (Aetobatus).

1900 A, pl. xvi (Aetobatus).

Owen, R. 1845 B, 47, pl. xxv, figs 3, 4 (Mylobates, Aetobates, Aetobatus).

Radcliffe, L. 1916 A, 278, pl. xlvii (Aetobatus)

Stannius, H. 1854 A, 90 (Aetobatis).

Recent; Atlantic Coast to Virginia Pleistocene, Florida.

Stoasodon perspicuus (Leidy).

Hay, O. P. 1902 A, 321 (Aetobatus).

Fowler, H. W. 1911 A, 99, fig. 52 (Aetobatus).

Eocene? (Shark River?); New Jersey.

Stoasodon profundus (Cope).

Hay, O. P. 1902 A, 321 (Aetobatus)

Eastman, C. R. 1904 H, 76 (Aetobatus)

Miocene (Calvert); Maryland

Stoasodon smithii Jordan and Beal.

Jordan and Beal 1913 A, 254, fig b.

Agassiz, L. 1857 A, 316, fig (Zygobatis sp.).

Jordan and Hannibal 1923 A, 59, pl. iii, figs.

a, h, n, pl. iv, fig. f (Aetobatus).

Oligocene (Vanqueros); Miocene (Monterey); San Pablo Jacalitos); Pliocene (San Diego). Pleistocene (Upper San Pedro) All in California.

Stoasodon sp. indet.

Jordan, D. S. 1907 A, 119 (Aetobatus). Miocene, California.

PLINTHICUS Cope. Type *P. stenodon* Cope.

Hay, O. P. 1902 A, 321.

Fowler, H. W. 1911 A, 100

Jordan, D. S. 1923 A, 105.

Plinthicus stenodon Cope.

Hay, O. P. 1902 A, 321.

Fowler, H. W. 1911 A, 100, fig. 53.

Hussakof, L. 1908 A, 33, fig. 10.

Miocene (Kirkwood); New Jersey.

RHINOPTERIDÆ Jordan.

Jordan, D. S. 1923 A, 105.

RHINOPTERA Kuhl. Type *Myliobatis marginatus* Geoff. St. Hilaire.

Hay, O. P. 1902 A, 321.

Ardit, T. 1923 A, 439.

Bateson, W. 1892 A, 112, fig. 5.

Bridge, T. W. 1904 A, 435.

Fowler, H. W. 1911 A, 101.

Garman, S. 1908 A, 252.

1913 A, 443.

Giebel, C. G. 1855 A, 117 (Zygobates).

- Hay, O. P. 1901 B, 68.
 Jordan, D. S. 1905 A, i, 557.
 1907 B, 214.
 1919 B, 173.
 Jordan and Evermann 1898 A, 90.
 Jordan and Gilbert 1882 A, 51.
 Müller and Henle 1838 A, 91.
 Owen, R. 1866 A, 82.
 Ridewood, W. G. 1921 A, 391, fig. 36.
 Stannius, H. 1854 A.
 Stromer, E. 1904 A, 251 (Zygobates).
 Woodward, A. S. 1889 I, 5.
 Zittel and Schlosser 1923 A, 74.
Rhinoptera dubia Leidy.
 Leidy, J. 1855 C, 396 (Zygobates).
 Hay, O. P. 1902 A, 321.

- Fowler, H. W. 1911 A, 102, figs. 54-57.
 Leidy, J. 1877 A, 247, pl. xxxi, figs. 21-37.
 (Zygobates).
 Upper Eocene; New Jersey: Miocene;
 Maryland, New Jersey.

Rhinoptera smithii Jordan and Beal.

- Jordan and Beal 1913 A, 246, 254, fig. c.
 Jordan and Gilbert 1919 A, 23.
 Miocene (Monterey); California.

Rhinoptera sp. indet.

- Hay, O. P. 1902 A, 321 Miocene; California.
 Blake, W. P. 1857 A, 172 (Zygobates). Mio-
 cene; California.

MOBULIDÆ Gill.

- Gill, T. 1893 A, 130.
 Hay, O. P. 1902 A, 321 (Mantidæ).
 Backman, G. 1913 A, 48 (Ceratopterna).
 Fitzinger, L. J. 1873 A, 57 (Cephaloptera).
 Garman, S. 1913 A, 448.
 Gill, T. 1908 B, 162.
 Jordan, D. S. 1905 A, i, 559.

- Jordan, D. S. 1907 B, 216, 759.
 1923 A, 105.
 Leigh-Sharpe, W. H. 1926 A, 342 (Dicar-
 batidæ).
 Pellegrin, J. 1912 A, 91 ("diablos de mer").
 1912 B, 721 ("diablos de mer").
 Radcliffe, L. 1916 A, 279.

MANTA Bancroft. Type *Raia birostris* Walbaum.

- Hay, O. P. 1902 A, 321.
 Abel, O. 1919 A, 131, figs. 93, 94 (Ceratoptera).
 Arlitt, T. 1923 A, 489 (Ceratoptera).
 Bridge, T. W. 1904 A, 465 (Ceratoptera).
 Coles, R. J. 1916 A, 217, 8 figs.
 1916 B, 649, figs. 1-5.
 Duméril, A. 1856 A, 146 (Ceratoptera).
 Garman, S. 1913 A, 449, 454.
 Gill, T. 1908 B, 176.
 Holmes, F. S. 1856 A, 39, pl. iii (Diabolichthys).
 Jaekel, O. 1902 B, 134 (Ceratoptera).
 Jordan, D. S. 1905 A, i, 560; ii, 580.
 1907 B, 217.

- Jordan, D. S. 1923 A, 105.
 Jordan and Gilbert, 1882 A, 52.
 Müller and Henle 1837 A, 401 (Ceratoptera).
 1838 A, 91 (Ceratoptera).
 Pellegrin, J. 1912 A, 91.
 1912 B, 722.
 Radcliffe, L. 1916 A, 279, 280.

Manta unios (Leidy).

- Hay, O. P. 1902 A, 322.
 Gill, T. 1908 B, 160 (Ceratoptera).
 Phosphate beds, South Carolina.

Subclass HOLOCEPHALA Bonaparte.

Unless otherwise indicated the authors, as
 quoted, employ the name *Holocephala*, or
Holocephali.

- Hay, O. P. 1902 A, 322.
 Abel, O. 1912 F, 440, 448, 677.
 1919 A, 140.
 1920 A, 330 ("holocephalen").
 Allen, E. P. 1905 A, 495.
 1915 A, 593 ("holocephalen").
 1926 B, 334.
 Arlitt, T. 1907 D, 658.
 1923 A, 490 ("holocephalen").
 Backman, G. 1915 A.
 Bardeleben, K. 1903 A, 20 ("holocephalen").
 Bessels, E. 1869 A, 153 ("holocephalen").
 Boas, J. E. V. 1914 B ("chmären").
 Bonaparte, C. L. 1831 A, 98, 121 (Acanthorhini).
 1838 C, 214.
 1840 A, 46.
 Bridge, T. W. 1896 A, 534.
 1904 A, 466, 742.
 Bronn, H. G. 1849 A, 830, seq.
 Carter, J. T. 1905 A, 136.
 Carus, V. 1875 A, 598.
 Collinge, W. E. 1895 C, 888.
 Cope, E. D. 1871 T, 449.
 1885 BB, 64.
 1891 N, 10, 14 (Holocephali, Chimaeroidæ).
 Coulon, L. 1903 A, 132 ("holocephales").
 Cunningham, J. T. 1912 A, 246.
 Day, E. C. H. 1865 A, 565.
 Dean, B. 1900 A, 22, 27 (Holocephali).
 1900 C, 169.
 1903 A, 285 ("holocephala").
 1906 B, ("chimaeroids").
 1909 C, 243.
 Dollo, L. 1889 E, 152 ("chimères").
 1896 A, 110 ("holocephales").
 1904 C, 47 ("holocephales").
 1906 B, 135 ("holocephales").
 1907 B, 100 ("holocephales").
 Eastman, C. R. 1907 B, 23, 65.
 1908 A, 69, 117.
 1911 A, 20.
 Fahrenholz, C. 1915 A, 407 ("holocephalen").
 Fitzinger, L. J. 1873 A, 53.

- Fowler, H. W. 1911 A, 108.
 Frassetto, F. 1915 A ("holocephali").
 Fuchs, H. 1909 B, 165 ("holocephalen").
 Fürbringer, K. 1903 A, 362.
 Fürbringer, M. 1902 A, 186 ("holocephalen").
 1904 A ("holocephalen").
 1904 B, 458 ("holocephalen").
 Garman, S. 1904 A, 243 (Chismopnea).
 1911 A, 81 (Chismopnea).
 1913 A, 9 (Chismopnea).
 Gaupp, E. 1898 B, 860 ("holocephalen").
 1905 D, 873 ("holocephalen").
 Gegenbaur, C. 1867 B, 378.
 Gill, T. 1905 A, 657.
 Goodrich, E. S. 1904 A, 471.
 1909 A, 168.
 Greene, J. R. 1861 A, 227.
 Gregory, W. K. 1904 A, 58.
 1907 D, 447.
 Haeckel, E. 1868 A, 443, 444.
 1873 A, 516.
 1893 A, xviii.
 Hase, A. 1907 A, 655 ("holocephalen").
 Hilzheimer, M. 1913 A, 470.
 Hoernes, R. 1886 A, 539.
 Huber, O. 1901 A, 598.
 Huxley, T. H. 1863 F, 372.
 1876 E, 103.
 Imms, A. D. 1905 A, 46.
 Jacobshagen, E. 1920 A, 88 ("holocephalen").
 Jaekel, O. 1901 A, 556 ("holocephalen").
 1903 D, 59 ("holocephalen").
 1903 F, 36 ("holocephalen").
 1903 G, 383 ("holocephalen").
 1906 C, 156 ("holocephalen").
 1906 D, 180 ("holocephalen").
 1911 A, 52.
 1913 A, 91 ("holocephalen").
 1919 A, 75, 91, 93.
 1926 A, 172 ("holocephalen").
 Jordan, D. S. 1905 A, 1, 508, 561; n, 575.
 1907 B, 182, 219, 759.
 1923 A, 105 (Chimeroiden).
 Jordan and Gilbert 1882 A, 53.
 1885 A, 71.
 Keyes, C. 1922 A, pl. iii.
 Knaer, J. 1924 A, 108.
 1928 A, 131.
 Kingsley, J. S. 1900 A, 249.
 1925 A, 654.
 Klaatseh, H. 1893 B, 666 ("holocephalen").
 1893 C, 148 ("holocephalen").
 Lakjer, T. 1927 A, 289 ("holocephalen").
 Latreille, P. A. 1825 A, 111 (Acanthornia).
 Leigh-Sharpe, W. H. 1926 A, 336, 342.
 Leunis and Ludwig 1883 A, 781.
 Lonnberg, E. 1901 A.
 1902 A.
 Luther, A. 1909 A, 3, 30 ("holocephalen").
 Lutken, C. 1868 C (Chimerini).
 Mayhew, R. L. 1924 A, 331 ("chimæras").
 Meek, A. 1916 A, 46, 412.
 Muller, J. 1845 A, 137.
 Nishi, S. 1920 A, 27 ("chimæren").
 Owen, R. 1845 B, 64 ("chimæroids").
 1866 A, 12, 35, 41.
 Parker, T. J. 1886 A, 635.
 Parker and Haswell 1897 A, 173.
 Patten, W. 1912 A, 385.
 Petronevics, B. 1919 A, 412 ("holocéphales").
 Pompeckj, J. F. 1913 A, 1131.
 Priem, F. 1908 B ("holocéphales").
 Rabinerson, A. 1925 A, 450, 483.
 Rabl, C. 1901 A, 489 ("holocephalen").
 Rauther, M. 1913 A, 1099.
 Regau, C. T. 1906 A, 726 (Chasmatopnea).
 1912 A, 836.
 Reis, O. M. 1893 A, 509 ("holocephalen").
 1894 A, 82 ("holocephalen").
 Reynolds, S. H. 1897 A, 106, 109, 111, 121, 543.
 Ridewood, W. G. 1896 A, 386.
 Rosén, N. 1916 A, 11.
 Roth, W. 1911 A, 514.
 Ryder, J. 1886 A, 74.
 Sabatier, A. 1904 A, 249 ("holocéphales").
 Sagemehl, M. 1883 A ("holocephalen").
 Schaumsland, H. 1906 A, 360 ("holocephalen").
 Schlosser, M. 1917 A, 136, 137, 139 ("holocephalen").
 Schmalhausen, J. J. 1913 A, 61.
 1918 A, 208.
 1923 A, 537.
 Semon, R. 1901 B, 133 ("holocephalen").
 Sewertzoff, A. N. 1923 B.
 1926 A, 536.
 Shann, E. W. 1919 A, 532.
 Stannus, H. 1854 A (Chimærae).
 Stemmann, G. 1907 A, 405.
 Stensiö, E. A. 1925 B, 188.
 Stephan, P. 1900 A, 313 ("holocéphales").
 Stromer, E. 1912 A, 24, 48.
 Suschkin, P. 1910 A, 248 ("holocephalen").
 Terra, P. 1911 A, 204 (Holocephali).
 Traquair, R. H. 1900 C, 506.
 Van Wijhe, J. W. 1922 A, 291 ("holocephalen").
 Versluys, J. 1922 B, 102.
 Wilder, B. 1876 A, 183.
 Woodward, A. S. 1915 B, lxxix.
 1922 C, 76.
 1924 B, 338.
 Zittel and Koken 1911 A, 69.
 Zittel and Schlosser 1923 A, 47.
 Zittel and Woodward 1902 A, 44.

Order CHIMÆROMORPHI, new name.

Superfamily CHIMÆROIDÆ new form.

- Hay, O. P. 1902 A, 322 (Chimæroides).
 Barrell, J. 1915 B, 393.
 Dean, B. 1900 A, 23 ("chimæroids").
 1906 B, ("chimæroids").
 1908 A, 204 ("chimæroids").
 1912 A, 227 ("chimæroids").
 Dollo, L. 1904 C, 47 ("chiméroides").
 Eastman, C. R. 1900 J, 287 ("chimæroids").
 1907 B, 23, 66 (Chimæroiden).
 1908 A, 69, 118 (Chimæroiden).
 Fowler, H. W. 1911 A, 109 (Chimæroides).
 Garman, S. 1904 A, 245 ("chimæroids").

Gegenbaur, C. 1870 C, 399 ("chumaren").
 Gill, T. 1905 B, 60 ("chumæroid").
 Gregory, W. K. 1907 D, 447 (Chumæroides).
 Hæckel, E. 1873 A, 516 (Chumæraei).
 Hussakof, L. 1906 A, 124 ("chumæroids").
 Huxley, T. H. 1876 A, 57, 59 (Chumæroiden).
 1876 E, 121, 124 (Chumæroiden).

Huxley, T. H. 1883 B, 571 (Chumæroideri).
 Jaekel, O. 1901 A, 540 ("chumæriden").
 Owen, R. 1845 B, 64 ("chumæroids").
 1846 E, 51 (Chumæroiden).
 Parker, T. J. 635 (Chumæra).
 Regan, C. T. 1912 A, 836 (Chumætopneæ).
 Woodward, A. S. 1921 B, 29 ("chumæroids").

CHIMÆRIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 98.
 Hay, O. P. 1902 A, 323.
 Abel, O. 1912 F, 665 ("chumæriden").
 1919 A, 143.
 Agassiz, L. 1844 D, 142 ("chumæridés").
 Allis, E. P. 1917 A, 133 ("chumæroids").
 Arldt, T. 1907 D, 645.
 1923 A, 490 ("chumæriden").
 Backman, G. 1915 A.
 Bonaparte, C. L. 1833 B, 1203.
 Bridge, T. W. 1904 A, 468.
 Briquel, P. 1898 A, 16 ("chumères").
 Cunningham, J. T. 1912 A, 246.
 Cuvier, G. 1805 A ("chumères").
 1815 A, 127 ("chumères").
 Day, E. C. H. 1865 A, 565 ("Chumæroids").
 Dean, B. 1900 C, 169 ("chumæroids").
 1903 A, 270, 284 ("chumæroid").
 1904 A, 51 ("chumæroid fishes").
 1904 E, 105 ("chumæroids").
 1906 B, ("chumæroids").
 1912 B, 37 ("chumæroids").
 Dollo, L. 1904 C, 50.
 Egerton, P. G. 1852 C, 6B, 2 ("chumæroids").
 Fitzinger, L. J. 1873 A, 54 (Chumærae).
 Fowler, H. W. 1911 A, 109.
 Furbringer, M. 1902 A, 172 ("chumæriden").
 1904 B ("chumæriden").
 Garman, S. 1904 A, 271.
 1911 A, 82.
 1913 A, 9.
 Gaupp, E. 1898 B, 841 ("chumæren").
 Gegenbaur, C. 1866 A, 123 ("chumæren").
 1867 B, 391 ("chumæren").
 1870 B, 448 ("chumæren").
 Goodrich, E. S. 1909 A, 176.
 Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 68.

Hoernes, R. 1866 A, 539.
 Huber, O. 1901 A, 636.
 Humphreys, J. 1908 A, 11 ("chumæras").
 Huxley, T. H. 1859 D, 418 (Chumæra).
 1876 E, 86.
 Jaekel, O. 1901 A, 540 ("chumæriden").
 1902 A, 107 ("chumæriden").
 1903 G, 386 ("chumæriden").
 1928 A, 43 ("chumæren").
 Jordan, D. S. 1905 A, 1, 564.
 1907 B, 221, 759.
 1923 A, 106.
 Jordan and Gilbert 1882 A, 53.
 Kingsley, J. S. 1885 A, 72.
 Kostlin, O. 1844 A ("chumæren").
 Leiche, M. 1906 C, 273.
 Leunis and Ludwig 1883 A, 781.
 Meckel, J. F. 1825 A ("chumæren").
 Owen, R. 1846 E, 51 (Edaphodontidæ).
 1866 A, 13.
 Parker and Haswell 1897 A, 174.
 Pompeck, J. F. 1913 A, 1132 ("chumæriden").
 Rauther, M. 1913 A, 1099.
 Schaunsland, H. 1903 A, 5, pls. xii-xviii, xxi-xxiv (Callorhynchus).
 Schlosser, M. 1917 A, 141.
 Stannius, H. 1854 A (Chumæra).
 Storms, R. 1894 A, 67 ("chumærides").
 Terra, P. 1911 A, 204.
 Traquair, R. H. 1900 C, 506 ("chumæroids").
 Wagner, R. 1843 A ("chumæren").
 Wallace, A. R. 1876 A, ii, 460.
 Woodward, A. S. 1912 A (1909), 182.
 1920 B, 5 ("chumæroids").
 Zittel and Koken 1911 A, 70.
 Zittel and Schlosser 1923 A, 76.
 Zittel and Woodward 1902 A, 46.

CHIMÆRA Linn. Type *C. monstrosa* Linn.

Hay, O. P. 1902 A, 324.
 Abel, O. 1912 F, 440, fig. 324.
 Allis, E. P. 1905 A, 472.
 1909 A, 74.
 1917 A, 105, pls. i-iii.
 1922 B, 199.
 1923 B, 156.
 Arldt, T. 1923 A, 490.
 Bessels, E. 1869 A, 154.
 Braus, H. 1906 B, 553.
 Bridge, T. W. 1904 A, 469, 735.
 Bronn, H. G. 1848 A, 290.
 Collinge, W. E. 1895 C, 878.
 Davidoff, M. 1879 A, 470.
 Dean, B. 1900 A, 28.
 1904 B, 14.
 Evans, H. M. 1923 A, 16, 29.
 Garman, S. 1911 A, 83.

Gaupp, E. 1905 D, 873.
 Goette, A. 1878 A, 841.
 Goodrich, E. S. 1901 A, 313, fig. B.
 Gregory, W. K. 1904 A, 57, fig. 11.
 Hay, O. P. 1901 B, 68.
 Hoeven, J. 1822 A.
 Huxley, T. H. 1863 F, 372, 428, figs. 30, 31.
 1869 G, 453.
 Jaekel, O. 1901 A, 547.
 1903 F, 36 (Chumarra).
 1905 C, 146, fig. 14.
 1906 A, 16, fig. 9.
 1926 A, 173.
 1926 B, 42 ("chumæren").
 1926 D, 71 ("holocephalen").
 Jaquet, M. 1897 A, 174, pls. v-viii.
 1898 B, 300, pls. xxiv-xxix.
 1900 A, 60.

Jordan, D. S. 1905 A, i, 563; ii, 563.

1917 A, 11.

1923 A, 106.

Jordan and Evermann 1917 A, 11.

Kerr, J. G. 1908 A, 169.

Kingale, J. S. 1925 A, 29, 88, figs. 30, 91.

Klaatsch, H. 1893 A, 148.

Kolmer, W. 1923 A, 529, figs. 1, 2 (Chumara).

Lakjer, T. 1927 A, 283.

Leidig, F. 1851 A, 241.

Leigh-Sharpe, W. H. 1926 A, 343.

Luther, A. 1909 A, 31.

Meek, A. 1916 A, 45, 46.

Mivart, St. G. 1878 B, 331.

Nishi, S. 1920 A, 28, figs. 1-8.

Norman, E. W. 1926 A, 452.

Parker, W. K. 1879 C, 336.

Parker and Haswell 1897 A, 174, figs. 799-802.

Rabmerson, A. 1925 A, 443, 450, fig. 3; 483.

fig. 1; 513.

Reynolds, S. H. 1897 A, 536.

Romer, A. S. 1928 A, 433.

Ryder, J. 1885 E, 91.

Sewertsoff, A. N. 1923 A, 391.

Schmalhausen, J. J. 1916 C, 213.

Shann, E. W. 1919 A, 547.

Solger, B. 1879 A, 95, pl. viii.

Stephan, P. 1900 A, 311.

Versluys, J. 1922 B, 98.

Zittel and Schlosser 1923 A, 75, fig. 129

At present no fossil American species of this genus is known.

EDAPHODON Buckland. Type *Chimera mantelli* Buckland.

Hay, O. P. 1902 A, 324.

Abel, O. 1919 A, 145, fig. 111.

Bronn, H. G. 1848 A, 452.

1849 A, 637.

Coulon, L. 1903 A, 133 (Ischyodus).

Dean, B. 1906 B, 134, 150, fig. 123.

1909 C, 259 (Ischyodus).

Egerton, P. G. 1843 A, 155 (Ischyodus).

1852 C, 6 B, 2.

Fowler, H. W. 1911 A, 110.

Giebel, C. G. 1855 A, 118.

Hay, O. P. 1901 B, 68.

Hussakof, L. 1912 A, 202, fig. 18a.

Jaekel, O. 1901 A, 547.

Jordan, D. S. 1919 B, 191.

1923 A, 106.

Lerche, M. 1905 A, 137.

1906 C, 414.

Newton, E. T. 1876 A, 329.

Owen, R. 1845 B, 66, 67.

Priem, F. 1907 C, 42.

1908 B, 42.

Probst, J. 1886 B, 312.

Storms, R. 1894 A, 73.

Woodward, A. S. 1912 A (1909), 183, pl. xxxix, text-figs. 52-55.

1912 A (1911), 185, pls. xl, xli.

1922 C, 76, fig. 77.

Zittel and Koken 1911 A, 72.

Zittel and Schlosser 1923 A, 77, fig. 132.

Zittel and Woodward 1902 A, 48.

Edaphodon agassizi (Buckland).

Buckland, W. 1835, Proc. Geol. Soc. Lond., ii, 206 (Chimaera).

Hay, O. P. 1902 A, 324 (E. smockii).

Agassiz, L. 1843 B, 341, pl. xl, a, figs. 3, 4; pl. xl, c, fig. 16 (Chumera).

Egerton, P. G. 1843, Proc. Geol. Soc. Lond., iv, 156 (Ischyodus).

Fowler, H. W. 1911 A, 115, fig. 66 (E. smockii).

Genits, H. B. 1875 A, 206, pl. xxxix, figs. 8-10 (Chumera).

Hussakof, L. 1908 A, 39, pl. ii, figs. 4, 5 (E. smockii).

1912 A, 213, figs. 10, 11 (Ischyodus smockii a syn.).

Newton, E. T. 1878 C, 12, pl. iii.

Woodward, A. S. 1891 A, 77.

Cretaceous (Danian); Europe: Cretaceous (Hornestown); New Jersey.

Edaphodon eocænus (Cope).

Hay, O. P. 1902 A, 324.

Fowler, H. W. 1911 A, 116, fig. 67.

Hussakof, L. 1908 A, 37, fig. 14.

Eocene (Shark River); New Jersey.

Edaphodon laqueatus (Leidy).

Hay, O. P. 1902 A, 324.

Hussakof, L. 1912 A, 200, 217, fig. 13.

Upper Cretaceous; Mississippi.

Edaphodon laterigerus (Cope).

Hay, O. P. 1902 A, 324.

Fowler, H. W. 1911 A, 113, fig. 65.

Hussakof, L. 1908 A, 38, pl. i, figs. 7, 8.

1912 A, 211, fig. 8

Upper Cretaceous (Hornestown); New Jersey.

Edaphodon mirificus Leidy.

Hay, O. P. 1902 A, 324 (E. divaricatus, E. fecundus, E. gaskilli, E. incassatus, E. latidens, E. longirostris, E. mersu, E. monolophus); 325 (E. solidulus).

Cope, E. D. 1871 G, 384 (Ischyodus solidulus).

Fowler, H. W. 1911 A, 113 (Ischyodus longirostris); 122, figs. 71-75 (E. mirificus); 119, figs. 69, 70 (E. fecundus); 118, fig. 68 (E. incassatus); 124, fig. 76 (E. divaricatus); 128, fig. 78 (E. latidens); 123 (E. mersu); 127, fig. 77 (E. solidulus); 123 (Ischyodus monolophus, I. gaskilli).

Hussakof, L. 1908 A, 38; pl. ii, fig. 3, text-figs. 3-7 (E. mirificus); pl. i, figs. 1-4 (E. fecundus); pl. i, figs. 5, 6 (E. incassatus); 38, text-fig. 15 (E. latidens); 39, pl. ii, figs. 1, 2 (E. solidulus).

1912 A, 204, pl. xix; pl. xx, figs. 1-3; text-figs. 2a-7 (E. divaricatus fecundus, gaskilli, incassatus, latidens, longirostris, mersu, monolophus, solidulus, as syn.).

Upper Cretaceous (Hornestown); New Jersey.

Edaphodon stenobryus (Cope).

- Hay, O P. 1902 A, 325.
 Fowler, H. W. 1911 A, iii, fig. 63.
 Hussakof, L. 1908 A, 39, pl. ii, figs. 6, 7.
 1912 A, 203, 213, figs. 2e, 9.
 Upper Cretaceous (Hornertown), New Jersey.

Edaphodon tripartitus (Cope).

- Hay, O P. 1902 A, 325.
 Fowler, H. W. 1911 A, 112, fig. 64

- Hussakof, L. 1908 A, 40, pl. iii, figs. 5, 6 (E. longirostris a syn.).
 1912 A, 215, fig. 12 (E. sedgwicki)
 Upper Cretaceous (Hornertown), New Jersey.

Edaphodon sp. indet.

- Fowler, H. W. 1911 A, 129-131, figs. 79-82 (Undetermined specimen).
 Upper Cretaceous (Hornertown); New Jersey

ELASMODUS Egerton. Type E. (Chimæra) hunteri Egert.

- Egerton, P. G. 1843 A, 156.
 Dean, B. 1909 C, 267.
 Egerton, P. G. 1847 A, 351.
 Jordan, D. S. 1919 B, 214.
 1923 A, 106.
 Newton, E. T. 1876 A, 329
 Nicholson and Lydekker 1889 A, 951.
 Woodward, A. S. 1898 B, 59, figs. 46, 47.
 1891 A, 88
 Zittel, K. A. 1890 A, 112.

Elasmodus? gilli, new species.

- Darton and Siebenthal 1910 A, 10 ("chimæroid fish").
 Dean, B. 1909 C, 265, pl. xxxvii ("egg-capsule," E'asmodus")
 Gill, T. 1905 B, 601 ("chimæroid egg-case")
 Hussakof, L. 1912 A, 224 ("fossil egg-case")
 Upper Cretaceous (Mesaverde), Wyoming.

MYLOGNATHUS Leidy. Type M. priscus Leidy.

- Hay, O P. 1902 A, 325.
 Dean, B. 1906 B, 134, 150.
 Hay, O P. 1901 B, 68
 Jordan, D. S. 1923 A, 106.
 Osborn, H. F. 1902 I, 16.

Mylognathus priscus Leidy.

- Hay, O P. 1902 A, 325
 1903 D, 117
 Osborn, H. F. 1902 I, 11.
 Paleocene (Fort Union), North Dakota

BRYACTINUS Cope. Type B. amorphus Cope.

- Hay, O P. 1902 A, 325.
 Fowler, H. W. 1911 A, 134.
 Hay, O P. 1901 B, 68
 Hussakof, L. 1912 A, 223
 Jordan, D. S. 1919 B, 191 (syn of Edaphodon).
 1923 A, 106

Bryactinus amorphus Cope.

- Hay, O P. 1902 A, 325.
 Cope, E. D. 1875 E, 282, pl. xlv, fig. 13.
 Fowler, H. W. 1911 A, 134; fig. 83.
 Hussakof, L. 1908 A, 37, fig. 13.
 1912 A, 223, figs. 19, 20.
 Upper Cretaceous (Hornertown), New Jersey.

ISOTÆNIA Cope. Type I. neocassariensis Cope.

- Hay, O P. 1902 A, 325.
 Fowler, H. W. 1911 A, 135
 Hay, O P. 1901 B, 68
 Hussakof, L. 1912 A, 222, fig. 18b
 Jordan, D. S. 1923 A, 106.

Isotænia neocassariensis Cope.

- Hay, O P. 1902 A, 325.
 Fowler, H. W. 1911 A, 135, fig. 84.
 Hussakof, L. 1908 A, 41; pl. iii, figs. 3, 4.
 1912 A, 222, fig. 7.
 Upper Cretaceous (Hornertown); New Jersey

LEPTOMYLUS Cope. Type L. densus Cope.

- Hay, O P. 1902 A, 325
 Dean, B. 1906 B, 134.
 Fowler, H. W. 1911 A, 136
 Hussakof, L. 1912 A, 218.
 Jordan, D. S. 1923 A, 106.
 Palmer, T. S. 1904 A, 372, 843.
 Storms, R. 1894 A, 73.

Leptomylus cookii Cope.

- Hay, O. P. 1902 A, 325.
 Cope, E. D. 1871 Q, 384
 Fowler, H. W. 1911 A, 137; fig. 85.

- Hussakof, L. 1908 A, 41; pl. iii, figs. 8, 9.
 1912 A, 219, fig. 14
 Upper Cretaceous (Navesink-Hornertown); New Jersey.

Leptomylus densus Cope.

- Hay, O. P. 1902 A, 325.
 Cope, E. D. 1871 Q, 384.
 Fowler, H. W. 1911 A, 138.
 Hussakof, L. 1912 A, 218.
 Upper Cretaceous (Navesink-Hornertown); New Jersey.

Leptomylus forfex Cope.

Hay, O P. 1902 A, 325.

Fowler, H. W. 1911 A, 139, fig. 86

SPHAGEPEA Cope. Type *S. aciculata* Cope.

Hay, O P. 1902 A, 325

Fowler, H W 1911 A, 143

Hay, O P 1901 B, 68

Jordan, D S. 1923 A, 106

Sphagepea aciculata Cope.

Hay, O P. 1902 A, 325

Fowler, H W. 1911 A, 144, fig 89

DICTYORHABDUS Walcott. Type *D. priscus* Walcott.

Hay, O. P. 1902 A, 325.

Clarke, J M 1895 A, 121 ("fossil fishes").

Jordan, D. S 1905 A, 1, 565, 11, 566

1923 A, 106

Romer, A. S. 1928 A, 433.

Stromer, E 1920 A, 10

Vallant, L. 1902 A, 1321 ("poissons" This genus?).

Walcott, C. D 1891 A, 245 ("fish")

Hussakof, L. 1908 A, 41; pl. III, figs. 1, 2.

1912 A, 221; figs 15, 16.

Upper Cretaceous (Navesink-Hornerstown);
New Jersey.

Hussakof, L. 1908 A, 50, fig. 22.

1912 A, 224, fig. 21.

Upper Cretaceous (Hornerstown); New Jersey

The systematic positions of the following
three genera are not known**HEDRONCHUS** Cope. Type *H. sternbergi* Cope.

Hay, O P 1902 A, 326

Cockerell, T D A 1908 C, 162

Jordan, D S 1923 A, 106

Hedronchus sternbergi Cope.

Hay, O P 1902 A, 326

Bowen, C F 1915 A, 118, 149, 150

Cockerell, T D A 1908 C, 162

Hatcher, J B 1905 B, 69 (H sternbergi)

Osborn, H F 1902 I, 11, 16

Sternberg, C. H 1903 C, 872 ("Hedronchus").

1914 A, 134

Upper Cretaceous (Judith River), Montana.

MYLEDAPHUS Cope. Type *M. bipartitus* Cope.

Hay, O. P 1902 A, 326

Cockerell, T. D. A. 1908 C, 162.

Cope, E D 1880 U, 148.

Jordan, D S 1923 A, 106

Osborn, H F. 1902 I, 16.

Priem, F 1901 A, 500

Stanton and Hatcher 1905 A, 38

Sternberg, C H. 1909 A, 113.

1917 A, 84, 116.

Williston, S W. 1902 K, 953 (= ?Rhombodus)

Myledaphus bipartitus Cope.

Hay, O. P 1902 A, 326.

Bowen, C F 1915 A, 118, 148, 149

Brown, B. 1914 E, 378.

Cockerell, T. D. A. 1908 C, 162.

Gilmore, C. W. 1916 D, 302, pl lxxvii, fig. 4
(This species?).

1924 D, 27.

Hatcher, J B. 1903 D, 372.

1905 B, 68.

Hay, O P. 1910 A, 313.

1910 B, 296

Hussakof, L. 1908 A, 32, fig 7

Lambe, L. M. 1902 A, 28, pl. xix, figs. 1, 2

Lambe, L. M. 1904 C, 21, 36, 41.

1907 B, 179.

1914 H, 398, 401.

1915 B, 120.

Matthew, W. D 1916 A, 485

Osborn, H F 1902 I, 11

Peale, A C 1912 A, 746, 754

Priem, F. 1901 F, 500

Sternberg, C H. 1903 B, 357.

1903 C, 871.

1909 C, 78, fig 13

1914 A, 134

1915 A, 132.

1924 A, 68 (Myledaphus).

Sternberg, C M 1926 A, 103, 104

Williston, S. W. 1902 K, 953.

Upper Cretaceous (Judith River); Montana;
(Belly River); Alberta (Lance); Wyoming,
Saskatchewan.**Myledaphus** sp. indet.Gilmore, C W. 1920 A, 8. Upper Cretaceous
(Kirtland); New Mexico.Reeside, J. B. 1924 A, 23. Upper Cretaceous
(Kirtland); New Mexico

ICHTHYODORULITES.

Hay, O. P. 1902 A, 326.
 Agassiz, L. 1835 B, 337.
 1835 I, 101.
 1839 A, 597.
 Bronn, H. G. 1848 A, 604.
 Dollo, L. 1889 F, 335.
 Eastman, C. R. 1908 A, 150.

Fowler, H. W. 1911 A, 141.
 Jordan, D. S. 1923 A, 96.
 Reynolds, S. H. 1897 A, 106.
 Zittel and Koken 1911 A, 72 ("ichthyodory-
 lthen").
 Zittel and Schlosser 1923 A, 78.
 Zittel and Woodward 1902 A, 48.

ACONDYLACANTHUS St. John and Worth. Type *A. gracilis* St. John and Worth.

Hay, O. P. 1902 A, 329.
 Hussakof, L. 1908 A, 43.
 Jordan, D. S. 1920 C, 425.
 1923 A, 96, 106.

Acondylacanthus? *mudgianus* St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Kansas.

Acondylacanthus æquicostatus St. John and Worth.

Hay, O. P. 1902 A, 329.
 Hussakof and Bryant 1919 A, 156.
 Mississippian (Keokuk); Illinois.

Acondylacanthus nuperus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois.

Acondylacanthus gracilis St. John and Worth.

Hay, O. P. 1902 A, 329.
 Mississippian (Kinderhook); Iowa.

Acondylacanthus rectus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois.

AMACANTHUS St. John and Worth. Type *Homocanthus gibbosus* Newb. and Worth.

Hay, O. P. 1902 A, 329.
 Jordan, D. S. 1923 A, 96.

Amacanthus gibbosus (Newb. and Worth.).

Hay, O. P. 1902 A, 329.
 Mississippian (St. Louis); Missouri, Illinois.

ANODONTACANTHUS Davis. Type *A. acutus* Davis, here chosen.

Davis, J. D. 1881 B, 427.
 Case, E. C. 1915 A, 124.
 Hussakof, L. 1911 A, 162.
 Hussakof and Bryant 1919 A, 157.
 Jordan, D. S. 1920 C, 415 (Syn. of *Oracanthus*)
 1923 A, 92.
 Traquair, R. H. 1888 A, 101.
 Woodward, A. S. 1889 D, 2 (Syn. *Pleuracanthus*).

Anodontacanthus americanus Hussakof.

Hussakof, L. 1911 A, 162, pl. xxvi, fig. 5.
 Case, E. C. 1915 A, 96.
 Permian (Wichita, Clear Fork); Texas.

Anodontacanthus pusillus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 15, 156, pl. xlv, fig. 2.
 Upper Devonian (Genesee); New York.

APATEACANTHUS Woodward. Type *A. vetustus* (Clarke).

Hay, O. P. 1902 A, 331.
 Eastman, C. R. 1907 B, 80.
 Jordan, D. S. 1923 A, 107.
 Lydekker, R. 1914 A, 652.

Apateacanthus vetustus (Clarke, J. M.).

Hay, O. P. 1902 A, 331.
 Clarke and Ruedemann 1903 A, 768 (*Pristacanthus*).
 Eastman, C. R. 1907 B, 17, 81, 225, pl. iii, fig. 5.
 Merrill, G. P. 1907 A, 17 (*Pristacanthus*).
 Upper Devonian (Portage); New York.

ASTEROPTYCHIUS M'Coy. Type *A. ornatus* M'Coy.

Hay, O. P. 1902 A, 330.
 Barkas, W. J. 1874 D, 544.
 Bronn, H. G. 1849 A, 653.
 Jordan, D. S. 1919 B, 239.

Asteroptychius elegans Newb.

Hay, O. P. 1902 A, 330.
 Hussakof, L. 1908 A, 43.
 Mississippian (Waverly); Michigan.

Asteroptychius bellulus St. John and Worth.

Hay, O. P. 1902 A, 330.
 Pennsylvanian; Illinois, Iowa.

Asteroptychius gracilis Newb.

Hay, O. P. 1902 A, 330.
 Hussakof, L. 1908 A, 43, fig. 17.
 Mississippian (St. Louis); Illinois.

- Asteroptychius keokuk** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Keokuk); Illinois.
- Asteroptychius sancti-ludovici** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (St. Louis); Illinois, Missouri.
- Asteroptychius tenellus** St. John and Worth.
Hay, O. P. 1902 A, 330.
Pennsylvanian; Kansas.
- ATOPACANTHUS** Hussakof and Bryant.
Hussakof and Bryant 1919 A, 157.
Jordan, D. S. 1923 A, 97.
- Atopacanthus dentatus** Hussakof and Bryant.
Hussakof and Bryant 1919 A, 19, 158, text-fig. 54a.
Upper Devonian (Portage); New York.
- BATACANTHUS** St. John and Worth. Type *B. baculiformis* St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1902 B, 87.
1903 B, 171.
1917 A, 257 (Syn. of *Physonemus*).
Jordan, D. S. 1923 A, 93, 106.
- Batacanthus baculiformis** St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1917 A, 263 (*Physonemus?*).
Mississippian (Keokuk); Iowa, Missouri, Illinois?.
- BYTHIACANTHUS** St. John and Worth.
Hay, O. P. 1902 A, 331.
Jordan, D. S. 1923 A, 96.
- Bythiacanthus? siderius** (Leidy).
Hay, O. P. 1902 A, 331.
Cope, E. D. 1871 R, 440 (*Asterocanthus iderius*).
Mississippian (St. Louis); Tennessee, New Jersey?
- COSMACANTHUS** Agassiz. Type *C. malcolmsoni* Agassiz.
Hay, O. P. 1902 A, 330.
Ardt, T. 1923 A, 487.
Barkas, W. J. 1874 D, 545.
Broon, H. G. 1848 A, 341.
1849 A, 653.
Evans, H. M. 1904 A, 400.
Jordan, D. S. 1919 C, 225.
1923 A, 96.
Jordan and Hannibal 1923 A, 30.
- Cosmacanthus bullatus** (St. John and Worth.).
Hay, O. P. 1902 A, 330.
Davidson, P. 1919 A, 435 (*Geissacanthus*).
Mississippian (Chester); Illinois.
- Asteroptychius? tenuis** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Chester); Illinois.
- Asteroptychius triangularis** Newb. and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Burlington); Iowa.
- Asteroptychius vetustus** St. John and Worth.
Hay, O. P. 1902 A, 330.
Mississippian (Kinderhook); Iowa.
- Type *A. dentatus* Hussakof and Bryant.
Atopacanthus peculiaris (Hussakof).
Hussakof, L. 1913 A, 247, pl. xlvii, figs. 4-6: text-fig. 2 (*Apateacanthus*).
Hussakof and Bryant 1919 A, 158.
Middle Devonian (Onondaga); New York.
- Batacanthus gigas** Branson.
Branson, E. B. 1916 A, 656, pl. iv, figs. 3-6; text-fig. 4.
Pennsylvanian (Embar); Wyoming.
- Batacanthus? necis** St. John and Worth.
Hay, O. P. 1902 A, 334.
Eastman, C. R. 1917 A, 263 (*Physonemus?*).
Mississippian (Keokuk); Iowa.
- Batacanthus stellatus** (Newb. and Worth.).
Hay, O. P. 1902 A, 334.
Mississippian (Keokuk); Illinois, Missouri.
- Type *B. vanhornei* St. J. and Worth.
Bythiacanthus vanhornei St. John and Worth.
Hay, O. P. 1902 A, 331.
Mississippian (St. Louis); Illinois.
- Bythiacanthus** sp. indet.
Cope, E. D. 1871 R, 440 ("Asterocanthus").
New Jersey.
- Cosmacanthus elegans** Evans.
Evans, H. M. 1904 A, 398, pl. xlvii.
Davidson, P. 1919 A, 434.
Eastman, C. R. 1905 A, 66 ("Asteracanthus").
Lower Triassic; Idaho.
- Cosmacanthus humboldtensis** Davidson.
Davidson, P. 1919 A, 433, figs. 1, 2.
Jordan and Hannibal 1923 A, 32, 61 (*C. humboldtensis*).
Middle Triassic; Nevada.
- Cosmacanthus stellatus** (St. John and Worth.).
Hay, O. P. 1902 A, 330.
Evans, H. M. 1904 A, 400.
Mississippian (St. Louis); Missouri.

CTENACANTHUS Agassiz. Type *C. major* Agassiz.

Hay, O. P. 1902 A, 326 (*Ctenacanthus*); 329 (*Eumecacanthus*).

Agassiz, L. 1835 B, 342.

1839 A, 597, pl. ii, fig. 10.

1844 C, 268.

Arlt, T. 1907 D, 339.

1923 A, 487.

Barkas, W. J. 1874 B, 168.

1874 D, 545.

Bronn, H. G. 1848 A, 355.

1849 A, 649.

Case, E. C. 1915 A, 124.

Claypole, E. W. 1903 A, 345.

Dean, B. 1902 A, 765.

1909 C, 229, 249, fig. 28 (*Ctenacanthus*, *Ctenacanthidae*).

Eastman, C. R. 1901 A, 795.

1907 B, 75.

1908 A, 152.

1917 A, 261.

Egerton, P. G. 1853 C, 281, pl. xii.

Heilprin, A. 1887 A, 152, 300.

Hussakof, L. 1908 A, 43.

1911 A, 161.

Jordan, D. S. 1923 A, 95, 106.

Mantell, G. A. 1844 A, 611.

Miller, A. M. 1916 A, 72.

Moodie, R. L. 1926 A, 93, pl. vii.

Schlosser, M. 1917 A, 133.

Thomson, J. 1872 A, 66.

Trouessart, E. 1898 B, 7.

Twenhofel and Dunbar 1914 A, 160.

Woodward, A. S. 1915 B, lix.

1921 B, 32, fig. 2.

1924 A, 112.

Zittel and Koken 1911 A, 53.

Zittel and Schlosser 1923 A, 59, fig. 94.

***Ctenacanthus acutus* Eastman.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Merrill, G. P. 1907 A, 8.

Mississippian (Keokuk); Iowa.

***Ctenacanthus amblyxiphias* Cope.**

Hay, O. P. 1902 A, 327.

Beede, J. W. 1907 A, 120.

Branson, E. B. 1916 A, 654, pl. ii, fig. 25; text-fig. 5.

Case, E. C. 1915 A, 96.

Eastman, C. R. 1903 B, 186, pl. ii, figs. 22, 23.

Hussakof, L. 1908 A, 44.

1911 A, 161, pl. xxx, fig. 6.

Woodruff, E. G. 1906 A, 290, pl. xviii, fig. 5
Pennsylvanian (Atchison) Nebraska: (Embar); Wyoming: Permian (Wichita, Clear Fork); Texas.

***Ctenacanthus angulatus* Newb. and Worth.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Chester); Illinois.

Type *C. major* Agassiz.***Ctenacanthus angustus* Newb.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1907 B, 18.

Hussakof, L. 1908 A, 44, fig. 19.

Upper Devonian (Berens); Ohio.

***Ctenacanthus bellus* Branson.**

Branson, E. B. 1906 A, 1293, pl. xii, figs. 19-21.

Mississippian (Salem); Indiana.

***Ctenacanthus brevis*.**

Eastman, C. R. 1902 B, 77. (No description.)

Mississippian (Kinderhook); Iowa.

***Ctenacanthus browni* Branson.**

Branson, E. B. 1916 A, 653, pl. iv, fig. 7; text-fig. 6

Pennsylvanian (Embar); Wyoming.

***Ctenacanthus? burlingtonensis* St. John and Worth.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1902 B, 92 (This genus?).

1917 A, 262 (This genus?).

Mississippian (Burlington); Iowa, Illinois.

***Ctenacanthus buttersi* St. John and Worth.**

Hay, O. P. 1902 A, 327.

Pennsylvanian; Illinois.

***Ctenacanthus cannaliratus* St. John and Worth.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Chester); Illinois.

***Ctenacanthus chemungensis* Claypole.**

Hay, O. P. 1902 A, 327.

Eastman, C. R. 1907 B, 21, 77, pl. vii, fig. 2.

1908 A, 154, 287.

Upper Devonian (Chemung); Pennsylvania, New York.

***Ctenacanthus clarkii* Newb.**

Hay, O. P. 1902 A, 327.

Claypole, E. W. 1903 A, 319 (*C. clarki*).

Dean, B. 1909 C, 250, figs. 42-45 (*C. clarki*).

Eastman, C. R. 1902 B, 77 (*C. clarki*).

1907 B, 18 (*C. clarki*).

1908 A, 283 (*C. clarki*).

Hussakof, L. 1908 A, 45, fig. 19.

Upper Devonian (Cleveland); Ohio.

***Ctenacanthus compressus* Newb.**

Hay, O. P. 1902 A, 327.

Claypole, E. W. 1903 A, 319.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 45.

Upper Devonian (Cleveland); Ohio.

- Ctenacanthus costatus** Newb. and Worth.
 Hay, O. P. 1902 A, 329 (Eunemacanthus).
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Missouri.
- Ctenacanthus coxianus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 87, 91.
 1917 A, 262.
 Mississippian (Kinderhook and Keokuk); Iowa.
- Ctenacanthus cylindricus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Hussakof, L. 1908 A, 45.
 Newberry, J. S. 1889 A, 202, pl. xxvi, fig. 1.
 Mississippian (Keokuk); Kentucky.
- Ctenacanthus decussatus** Eastman.
 Eastman, C. R. 1902 B, 84, 91, pl. vi, fig. 2; text-fig. 11.
 Eastman, C. R. 1917 A, 261, 262.
 Merrill, G. P. 1907 A, 8.
 Mississippian (Kinderhook); Keokuk, Iowa.
- Ctenacanthus deflexus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 77, 83, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus depressus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 91.
 1917 A, 262.
 Mississippian (Kinderhook); Iowa.
- Ctenacanthus elegans** Tuomey.
 Hay, O. P. 1902 A, 327.
 Mississippian; Alabama.
- Ctenacanthus excavatus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Keokuk); Illinois, Missouri.
- Ctenacanthus? fallax** Woodward.
 Hay, O. P. 1902 A, 327.
 Mississippian; —.
- Ctenacanthus formosus** Newb.
 Hay, O. P. 1902 A, 327.
 Newberry, J. S. 1874 G, 94, 98.
 1874 H, 212.
- Read, M. C. 1873 A, 504 (Ctenacanthus formosa).
 Rogers, A. F. 1924 A, 546.
 Mississippian (Waverly); Ohio, Kentucky.
- Ctenacanthus furcicaratus** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 87.
 Newberry, J. S. 1874 G, 94.
 Mississippian (Waverly); Kentucky.
- Ctenacanthus gemmatus** St. John and Worth.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus gracillimus** Newb. and Worth.
 Hay, O. P. 1902 A, 329 (Acondylacanthus).
 Eastman, C. R. 1902 B, 85, 86, fig. 12.
 1917 A, 261, pl. v, fig. 4; pl. vii, fig. 7.
 Hussakof, L. 1908 A, 43 (Acondylacanthus).
 Strong, E. A. 1872 A, 2.
 Mississippian (St. Louis); Missouri, Michigan, Illinois, Indiana.
- Ctenacanthus gradocostus** St. John and Worth.
 Hay, O. P. 1902 A, 327 (C. gradocostatus, *errore*).
 Eastman, C. R. 1902 B, 92.
 1917 A, 262 (C. gradocostatus, *errore*).
 Mississippian (Burlington); Illinois, Iowa.
- Ctenacanthus gurleyi** Newb.
 Hay, O. P. 1902 A, 327.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Indiana.
- Ctenacanthus harrisoni** St. John and Worth.
 Hay, O. P. 1902 A, 328.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (St. Louis); Illinois.
- Ctenacanthus keokuk** St. John and Worth.
 Hay, O. P. 1902 A, 328.
 Branson, E. B. 1906 A, 1393.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Mississippian (Keokuk); Illinois, Missouri.
- Ctenacanthus littoni** Newb.
 Hay, O. P. 1902 A, 328.
 Eastman, C. R. 1902 B, 92.
 1917 A, 262.
 Hussakof, L. 1908 A, 45.
 Mississippian (St. Louis); Missouri.

Ctenacanthus longinodosus Eastman.

Eastman, C. R. 1902 B, 78, 91, pl. v, fig. 2;
text-fig. 8.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8.

Mississippian (Kinderhook); Iowa.

Ctenacanthus lucasi Eastman.

Eastman, C. R. 1902 B, 80, 91, pl. vi, fig. 1;
text-fig. 9.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8.

Mississippian (Kinderhook); Iowa.

Ctenacanthus marshi Newb.

Newberry, J. S. 1873 A, 326, pl. xxxvi, figs. 3,
3b.

Hay, O. P. 1902 A, 328.

Stevenson, J. J. 1907 A, 168 (Ctenobranchus)

Pennsylvanian; Illinois.

Ctenacanthus mayi Newb. and Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 91.

Mississippian (Burlington); Iowa.

Ctenacanthus nodocostatus Hussakof
and Bryant.

Hussakof and Bryant 1919 A 159, pl. h, fig. 1.
Devonian (Hamilton, Catskill); New York,
Pennsylvania.

Ctenacanthus obscuracostatus Branson.

Branson, E. B. 1916 A, 654, pl. iv, fig. 2; text-
figs. 2, 3.

Pennsylvanian (Embar); Wyoming.

Ctenacanthus pellensis St. John and
Worth.

Hay, O. P. 1902 A, 328.

Branson, E. B. 1906 A, 1393, pl. xh, fig. 25
(This species?).

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (St. Louis); Iowa: (Salem);
Indiana.

Ctenacanthus pugiunculus St. John and
Worth.

Hay, O. P. 1902 A, 328.

Mississippian (St. Louis); Missouri, Illinois.

Ctenacanthus randalli Newb.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1907 B, 21, 77.

1908 A, 154, 287.

Hussakof, L. 1908 A, 46, fig. 20.

Upper Devonian (Chemung); Pennsylvania.

Ctenacanthus sculptus St. John and
Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Kinderhook); Iowa.

Ctenacanthus semicostatus (St. John
and Worth.).

Hay, O. P. 1902 A, 328 (Anacritacanthus).

Eastman, C. R. 1902 B, 89, 92.

1917 A, 262.

Mississippian (Burlington, Kinderhook);
Iowa.

Ctenacanthus similis St. John and
Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 92.

1917 A, 262.

Mississippian (Chester); Illinois.

Ctenacanthus solidus Eastman.

Eastman, C. R. 1902 B, 77, 83, 87, 90, 92, pl.
vn, fig. 3; text-fig. 13.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 8, 9.

Mississippian (Kinderhook); Iowa, Illinois.

Ctenacanthus speciosus St. John and
Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 89.

Mississippian (Kinderhook); Iowa.

Ctenacanthus spectabilis St. John and
Worth.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 77, 83, 87, 90, 92, pl.
v, fig. 1.

1917 A, 261, 262.

Merrill, G. P. 1907 A, 9.

Mississippian (Kinderhook), Iowa, Illinois.

Ctenacanthus triangularis Newb.

Hay, O. P. 1902 A, 328.

Carll, John F. 1890 A, 33.

Newberry, J. S. 1874 G, 90, 98.

Mississippian (Waverly), Pennsylvania.

Ctenacanthus varians St. John and
Worth.

St. John and Worthen 1875 A, 422, pl. xiv, fig. 2.

Hay, O. P. 1902 A, 328.

Eastman, C. R. 1902 B, 77, 83, 88, 89, 91, 92.

1917 A, 262.

Hay, O. P. 1909 C, 51, pl. xii, figs. 4, 5.

Mississippian (Kinderhook); Iowa.

Ctenacanthus venustus Eastman.

Eastman, C. R. 1902 B, 81, 92, pl. iii, fig. 2;
text-fig. 10.

Eastman, C. R. 1917 A, 261, 262.

Merrill, G. P. 1907 A, 9.

Mississippian (Kinderhook), Iowa.

Ctenacanthus vetustus Newb.

Hay, O. P. 1902 A, 328.

Claypole, E. W. 1903 A, 318.

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 46.
 Newberry, J. S. 1874 G, 94.
 1874 H, 215.
 Upper Devonian (Cleveland); Ohio.

Otenacanthus wrighti Newb.

Hay, O. P. 1902 A, 328.
 Claypole, E. W. 1903 A, 319.
 Eastman, C. R. 1902 B, 71.
 1907 B, 14, 76.
 1908 A, 153, 276.
 Hussakof, L. 1908 A, 46.
 Hussakof and Bryant 1919 A, 15, 17, 161, pl. lu, fig. 2.
 Middle Devonian (Hamilton): Upper Devonian (Genesee); New York.

Otenacanthus xiphias (St. John and Worth.).

Hay, O. P. 1902 A, 328.
 Eastman, C. R. 1902 B, 77 (Acondyliacanthus); 92 (Otenacanthus).
 1917 A, 282.
 Merrill, G. P. 1907 A, 9.
 Trouessart, E. 1898 B, 7.
 Mississippian (Keokuk); Iowa.

Otenacanthus sp. indet.

Eastman, C. R. 1902 B, 83. Mississippian (Keokuk); Iowa.
 Hussakof and Bryant 1919 A, 15, 161. Upper Devonian (Genesee); New York.
 Twenhofel and Dunbar 1914 A, 160. Pennsylvanian; Kansas.

CYRTACANTHUS Newb. Type *C. dentatus* Newb.

Hay, O. P. 1902 A, 336.
 Claypole, E. W. 1903 A, 345.
 Eastman, C. R. 1908 A, 119.
 1908 B, 193.
 Hussakof and Bryant 1919 A, 163.
 Jordan, D. S. 1919 B, 371 (Syn.? of *Erisma*-*canthus*).
 1923 A, 107.
 Weller, S. 1902 A, 427.

Cyrtacanthus dentatus Newb.

Hay, O. P. 1902 A, 336.
 Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1907 B, 13.
 1908 A, 149, 278.
 Hussakof, L. 1908 A, 46.
 Hussakof and Bryant 1919 A, 162, text-fig. 55 a (This species?).
 Orton, E. 1878 A, 626.
 Stauffer, C. R. 1909 A, 169.
 Middle Devonian (Columbus and Delaware?); Ohio.

ECZEMATOLEPIS S. A. Miller. Type *Acantholepis pustulosus* (Newb.).

Hay, O. P. 1902 A, 332 (Eczematolepis, Phlyctenacanthus).
 Arldt, T. 1907 D, 130, 185 (Acantholepis).
 Claypole, E. W. 1903 A, 313 (Acantholepis).
 Cleland, H. F. 1911 A, 152 (Phlyctenacanthus).
 Dean, B. 1906 B, 136 (Phlyctenacanthus).
 Eastman, C. R. 1903 B, 214 (Phlyctenacanthus).
 1907 B, 79, 225 (Acantholepis); 80 (Phlyctenacanthus).
 1908 A, 140 (Acantholepis); 141, 143 (Phlyctenacanthus).
 1908 B, 78, 193 (Acantholepis).
 Hussakof, L. 1908 C, 312 (Acantholepis).
 Jordan, D. S. 1923 A, 97 (Eczematolepis, Phlyctenacanthus).
 Teller, E. F. 1906 A, 162 (Phlyctenacanthus).
 Weller, S. 1902 A, 427 (Acantholepis).

Eczematolepis fragilis (Newb.).

Hay, O. P. 1902 A, 332.
 Claypole, E. W. 1896 B, 354 (Acantholepis).
 1903 A, 321 (Acantholepis). 318 (*Oracanthus abbreviatus*, *O. fragilis*, *O. granulatus*).
 Cleland, H. F. 1911 A, 152, pl. xiv, fig. 3 (Acantholepis).

Eastman, C. R. 1907 B, 14, 15, 79, 225, pl. iii, fig. 1 (Acantholepis).
 1908 A, 142, 277, pl. iii, fig. 5 (Acantholepis).
 1908 B, 79, pl. iii, fig. 1 (Acantholepis).
 Hussakof, L. 1908 A, 22, fig. 1.
 Hussakof and Bryant 1919 A, 10, 13, 17, 101, pl. xxx, fig. 2, pl. xxx, fig. 1.
 Newberry, J. S. 1874 H, 192 (Acantholepis *pustulosus*).
 Orton, E. 1878 A, 626 (Acantholepis *pustulosus*).
 Stauffer, C. R. 1909 A, 169 (Acantholepis).
 Middle Devonian (Columbus, Delaware); Ohio: (Ulsterian); New York: (Erian); Wisconsin: Upper Devonian (Genesee); New York.

Eczematolepis telleri Eastman.

Hay, O. P. 1902 A, 332 (Phlyctenaspis).
 Cleland, H. F. 1911 A, 153, pls. ii, lu, fig. 1 (Phlyctenaspis).
 Eastman, C. R. 1907 B, 15, 80 (Phlyctenaspis).
 1908 A, 143, 277 (Phlyctenaspis).
 Hussakof and Bryant 1919 A, 102.
 Sauvage, H. E. 1899 A, 6 (Phlyctenaspis *telleri*).
 Teller, E. E. 1906 A, 162, pls. i-v (Phlyctenaspis).
 1911 A, 271.
 Middle Devonian (Hamilton); Wisconsin.

ERISMACANTHUS M'Coy. Type *E. jonesii* M'Coy.

- Hay, O. P. 1902 A, 335.
 Barkas, W. J. 1874 D, 546.
 Eastman, C. R. 1902 E, 849
 1903 B, 211
 1917 A, 265.
 Hussakof and Bryant 1919 A, 163.
 Jordan, D. S. 1923 A, 106.

***Erismacanthus barbatus* Eastman.**

- Eastman, C. R. 1903 B, 211, pl. v, fig. 47.
 1908 A, 149
 Mississippian (Kinderhook); Iowa.

***Erismacanthus formosus* Eastman.**

- Eastman, C. R. 1902 E, 850, fig. 1.
 1903 B, 212, fig. 13.
 1917 A, 265.
 Mississippian (St. Louis); Missouri.

***Erismacanthus maccoyanus* St. John and Worth.**

- Hay, O. P. 1902 A, 335.
 Davis, J. W. 1884 A, 617.
 Eastman, C. R. 1903 B, 211
 1917 A, 265, pl. vii, figs. 2, 3
 Mississippian (Kinderhook); Iowa: (St. Louis); Missouri.

EUCTENIUS Traquair. Type *E. unilateralis* (Barkas).

- Hay, O. P. 1902 A, 337.
 Jordan, D. S. 1923 A, 96, 107.

***Euctenius* sp. indet.**

- Hay, O. P. 1902 A, 337 Pennsylvanian; Ohio.

EUNEMACANTHUS St. John and Worth. Type *E. costatus* (Newb. and Worth.).

- Hay, O. P. 1902 A, 329
 Jordan, D. S. 1920 C, 425 (Syn. of *Ctenacanthus*).
 1923 A, 96.

***Eunemacanthus costatus* (Newb. and Worth.).**

- Hay, O. P. 1902 A, 329

- Eastman, C. R. 1902 B, 77.
 Pennsylvanian (St. Louis); Illinois, Missouri.

***Eunemacanthus keytei* Branson.**

- Branson, E. B. 1916 A, 655, pl. iv, fig. 1; text-fig. 1.
 Pennsylvanian (Embar); Wyoming.

GAMPHACANTHUS S. A. Miller. Type *Heteracanthus politus* Newb.

- Hay O. P. 1902 A, 332
 Dean, B. 1906 B, 136 (*Heteracanthus*).
 Eastman C. R. 1907 B, 82, 229 (*Heteracanthus*).
 1908 A, 138 (Syn. of *Heteracanthus*).
 1917 A, 244 (*Heteracanthus*).
 Hussakof and Bryant 1919 A, 163
 Jordan, D. S. 1923 A, 93.
 Osburn, R. C. 1907 A, 432 (*Heteracanthus*).
 Zittel and Schlosser 1923 A, 78, fig. 134.

***Gamphacanthus politus* (Newb.).**

- Hay, O. P. 1902 A, 332.
 Cleland, H. F. 1911 A, 153, pl. xlvii, figs. 1, 2 (*Heteracanthus*)
 Eastman, C. R. 1907 B, 15, 16, 82, 229 (*Heteracanthus*).
 1908 A, 138, 277, 281 (*Heteracanthus*).
 Hussakof, L. 1908 A, 47
 Hussakof and Bryant 1919 A, 164

- Norton W. H. 1906 A, 356 (*Heteracanthus*).
 Teller, E. E. 1906 A, 164 (*Heteracanthus*)
 1911 A, 270
 Middle Devonian (Hamilton, Cedar Valley); Iowa, Illinois, Wisconsin.

***Gamphacanthus uddeni* (Lindahl).**

- Hay, O. P. 1902 A, 332
 Anonymous, 1898 C, 85 (*Heteracanthus*)
 Cleland, H. F. 1911 A, 154 (*Heteracanthus*).
 Eastman, C. R. 1907 B, 15, 16, 83 (*Heteracanthus*).
 1908 A, 139, 277 (*Heteracanthus*).
 1917 A, 245, pl. i (*Heteracanthus*)
 Hussakof and Bryant 1919 A, 164, pl. lii, fig. 1.
 Udden, J. A. 1897 A, 95 (*Heteracanthus*)
 Middle Devonian (Cedar Valley); Iowa: (Hamilton); Wisconsin.

GAMPSACANTHUS St. John and Worth. Type *G. typus* St. John and Worth.

- Hay, O. P. 1902 A, 336
 Eastman, C. R. 1902 E, 849.
 1917 A, 265.
 Jordan, D. S. 1923 A, 106.

***Gampsacanthus? latus* St. John and Worth.**

- Hay, O. P. 1902 A, 336
 Mississippian (Keokuk); Missouri.

***Gampsacanthus squamosus* St. John and Worth.**

- Hay, O. P. 1902 A, 336.
 Mississippian (St. Louis); Illinois.

***Gampsacanthus typus* St. John and Worth.**

- Hay, O. P. 1902 A, 336.
 Zittel and Woodward 1902 A, 49.
 Mississippian (St. Louis); Illinois, Missouri.

GLYMMAACANTHUS St. John and Worth. Type *G. irishii* St. J. and Worth.

Hay, O. P. 1902 A, 331.

Evans, H. M. 1904 A, 400.

Jordan, D. S. 1920 C, 425 (*Gymnatacanthus*).
1923 A, 96.**Glymmatacanthus irishii** St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Kinderhook); Iowa.

HARPACANTHUS Traquair. Type *Tristychius fimbriatus* (Stock).

Hay, O. P. 1902 A, 336.

Bronn, H. G. 1849 A, 653 (*Tristychius*).

Eastman, C. R. 1903 A, 119, 150.

1917 A, 266

Jordan, D. S. 1923 A, 106.

Traquair, R. H. 1893 E, 178.

1894 B, 372.

Woodward, A. S. 1924 A, 112 (*Tristychius*).Zittel and Koken 1911 A, 54 (*Tristychius*).Zittel and Schlosser 1923 A, 59, fig 95 (*Tristychius*).**HOMACANTHUS** Agassiz. Type *H. arcuatus* Agassiz.

Hay, O. P. 1902 A, 329

Ardt, T. 1923 A, 487.

Barkas, W. J. 1874 D, 546.

Eastman, C. R. 1903 B, 217.

1907 B, 74.

1908 A, 151.

Jordan, D. S. 1923 A, 91.

Homacanthus acinaciformis Eastman.

Eastman, C. R. 1903 B, 218, pl. v, fig. 58

Eastman, C. R. 1907 B, 21, 75, pl. i, fig. 16.

1908 A, 151, 287, pl. iii, fig. 10.

Upper Devonian (Chemung); Pennsylvania.

HOPLONCIUS J. W. Davis. Type *H. elegans* J. W. Davis.

Hay, O. P. 1902 A, 329.

Cushing, H. P. 1912 A, 581.

Jordan, D. S. 1923 A, 96.

Hoplonchus parvulus Newb.

Hay, O. P. 1902 A, 329.

LECRACANTHUS St. John and Worth. Type *L. unguiculus* St. John and Worth.

Hay, O. P. 1902 A, 336.

Eastman, C. R. 1902 E, 849.

1917 A, 265

Jordan, D. S. 1923 A, 106.

LISTRACANTHUS Newb. and Worth. Type *L. hystrix* Newb. and Worth.

Hay, O. P. 1902 A, 336

Barkas, W. J. 1874 D, 547.

Bolton, H. 1896 A, 424, fig.

Jordan, D. S. 1923 A, 107.

Woodward, A. S. 1903 A, 486.

Listracanthus hildrethi Newb.

Hay, O. P. 1902 A, 336.

Pennsylvanian; Ohio.

Glymmatacanthus petrodoides St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Chester); Illinois.

Glymmatacanthus rudis St. John and Worth.

Hay, O. P. 1902 A, 331.

Mississippian (Keokuk); Iowa.

Harpacanthus fimbriatus (Stock).

Hay, O. P. 1902 A, 336

Hussakof, L. 1903 A, 48.

Mississippian (St. Louis); Illinois.

Harpacanthus procumbens Eastman.

Eastman, C. R. 1917 A, 266, pl. vii, fig. 1.

Mississippian (St. Louis); Missouri.

Homacanthus delicatulus Eastman.

Eastman, C. R. 1903 B, 218, pl. iii, fig. 28, pl. v, fig. 59

Eastman, C. R. 1908 A, 152

Mississippian (Kinderhook); Iowa.

Homacanthus gracilis Whiteaves.

Hay, O. P. 1902 A, 329.

Eastman, C. R. 1907 B, 13.

1908 A, 276

Lambe, L. M. 1904 C, 33 ("acanthodian fish").

Whiteaves, J. F. 1907 B, 258 ("acanthodian?").

Lower Devonian, New Brunswick.

Claypole, E. W. 1903 A, 318 (*Ctenacanthus*)

Eastman, C. R. 1907 B, 18.

1908 A, 283.

Hussakof, L. 1908 A, 49

Upper Devonian (Cleveland); Ohio.

Lecracanthus unguiculus St. John and Worth.

Hay, O. P. 1902 A, 336.

Mississippian (St. Louis); Missouri, Illinois.

Listracanthus hystrix Newb. and Worth.

Hay, O. P. 1902 A, 336.

Brongniart, C. 1888 C, 47

Savage, T. E. 1922 A, 238, 240.

Pennsylvanian; Ohio, Illinois, Missouri.

MACHÆRACANTHUS Newb. Type *M. peracutus* Newb.

- Hay, O. P. 1902 A, 331.
 Barkas, W. J. 1874 D, 547 (*Machæracanthus*).
 Claypole, E. W. 1903 A, 313.
 Eastman, C. R. 1899 A, 642.
 1902 B, 92.
 1902 G, 536.
 1907 B, 83, 193, 231.
 1908 A, 112, 113.
 Hussakof and Bryant 1919 A, 140, 143.
 Jordan, D. S. 1923 A, 91.
 Reis, O. M. 1894 A, 58, 60.
 Smith, B. 1910 A, 656, fig. 1.
 Traquair, R. H. 1893 E, 177.
 Weller, S. 1902 A, 427.
 Zittel and Koken. 1911 A, 72.

***Machæracanthus longævus* Eastman.**

- Eastman, C. R. 1907 B, 14, 85; pl. II, fig. 8.
 Jordan, H. F. 1911 A, 154 (This species?).
 Eastman, C. R. 1907 A, 114, 231, 278.
 Hussakof and Bryant 1919 A, 17, 166.
 Smith, B. 1910 A, 658.
 Middle Devonian (Hamilton); New York,
 Wisconsin?

***Machæracanthus major* Newb.**

- Hay, O. P. 1902 A, 331.
 Claypole, E. W. 1903 A, 318, 345.
 Eastman, C. R. 1907 B, 14.
 1908 A, 278.
 Hussakof, L. 1908 A, 49.
 Hussakof and Bryant 1919 A, 165, pl. III, figs. 1, 2;
 text-fig. 56.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Zittel and Woodward 1902 A, 49, fig. 97.
 Middle Devonian (Columbus and Delaware),
 Ohio (Hamilton); New York: Upper Devonian
 (Genesee); New York.

***Machæracanthus peracutus* Newb.**

- Hay, O. P. 1902 A, 332.
 Clarke and Luther 1904 A, 42.

MARRACANTHUS St. John and Worth.

- Hay, O. P. 1902 A, 329.
 Jordan, D. S. 1923 A, 96

CESTOPHORUS S. A. Miller. Type *Sphenophorus lilleyi* Newb.

- Hay, O. P. 1902 A, 337.
 Jordan, D. S. 1923 A, 96.
 Zittel and Schlosser 1923 A, 31 (*Sphenophorus*).
***Cestophorus lilleyi* (Newb.).**
 Hay, O. P. 1908 A, 337.
 Claypole, E. W. 1903 A, 320 (*Sphenophorus*
lilleyi).
 Eastman, C. R. 1907 B, 21 (*Sphenophorus*).
 1908 A, 207, 288 (*Sphenophorus*).
 1908 B, 157 (*Sphenophorus*)

- Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1907 B, 14, 84.
 1908 A, 114, 277.
 Hussakof, L. 1908 A, 49.
 Hussakof and Bryant 1919 A, 17, 167, pl. III,
 fig. 3.
 Lambe, L. M. 1904 C, 16, 34, 42.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Rogers, A. F. 1924 A, 546.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Whiteaves, J. F. 1877 A, 319.
 Lower Devonian, Quebec Middle Devonian;
 Ontario: (Columbus and Delaware); Ohio:
 (Onondaga), New York.

***Machæracanthus sulcatus* Newb.**

- Hay, O. P. 1902 A, 332.
 Clarke and Luther 1904 A, 42.
 Clarke and Ruedemann 1903 A, 767.
 Claypole, E. W. 1903 A, 318.
 Eastman, C. R. 1907 B, 13, 14, 84, 191, 231; pl.
 III, fig. 6.
 1908 A, 276, 278.
 Lambe, L. M. 1904 C, 16, 34, 42.
 Lankester, E. R. 1870 D, 223.
 Newberry, J. S. 1874 H, 192.
 Orton, E. 1878 A, 626.
 Smith, B. 1910 A, 658.
 Stauffer, C. R. 1909 A, 169.
 Van Ingen and Clark 1903 A, 1204, 1208.
 Whiteaves, J. F. 1877 A, 319.
 Lower Devonian; Quebec, Ontario Middle
 Devonian (Columbus and Delaware); Ohio and
 Canada (Onondaga and Oriskany); New York.
***Machæracanthus* sp. indet.**
 Eastman, C. R. 1899 A, 642 Middle Devonian
 (Hamilton), New York.
 1907 B, 15 (= *M. longævus*?). Middle De-
 vonian (Hamilton); Wisconsin.
 Hussakof and Bryant 1919 A, 168, pl. III, fig. 4.
 Upper Devonian (Genesee); New York.

Type *M. rectus* (Newb. and Worth).***Marracanthus rectus* (Newb. and Worth.).**

- Hay, O. P. 1902 A, 329.
 Mississippian (St. Louis); Missouri.

***Cestophorus* sp. indet.**

- Hay, O. P. 1902 A, 338.
 Cleland, H. F. 1911 A, 157. Devonian (Hamil-
 ton), Wisconsin.

- Eastman, C. R. 1907 B, 16 (Sphenophorus). Devonian (Hamilton); Wisconsin.
1908 A, 279 (Sphenophorus).
- Teller, E. E. 1911 A, 271 (Sphenophorus) Devonian (Hamilton); Wisconsin.

ONCHUS Agassiz. Type *O. murchisoni* Agassiz.

- Hay, O. P. 1902 A, 326.
Agassiz, L. 1835 B, 242.
1839 A, 596, pl. ii, figs 10, 11.
1839 B, 607, pl. iv, figs. 9-11, 57-59.
1844 C, 268.
Ardt, T. 1923 A, 487.
Barkas, W. J. 1874 D, 547.
Barrell, J. 1915 B, 394, 404.
Bronn, H. G. 1848 B, 843
1849 A, 652.
Claypole, E. W. 1885 E, 89.
1900 A, 248.
1903 A, 345.
Eastman, C. R. 1907 B, 73.
1908 A, 150.
Hay, O. P. 1901 B, 63.
Heilprin, A. 1887 A, 142, 300
Jordan, D. S. 1923 A, 92 (To Onchidae).
Kemna, A. 1903 A, 343.
Lankester, E. R. 1864 C, 446.
Mantell, G. A. 1844 A, 611.
M'Coy, F. 1853 C, 12.
Moodie, R. L. 1923 B, 297.
Murchison, R. I. 1853 A, 16.
1854 A, 238, pl. xxxv, figs. 15-17.
Pompeckj, J. F. 1913 A, 1120.
Schlosser, M. 1917 A, 132.
Stromer, E. 1920 A, 11.
Traquair, R. H. 1899 C, 598.
1900 C, 503.
Woodward, A. S. 1920 D, 27.
Zittel and Koken 1911 A, 72.
Zittel and Schlosser 1923 A, 48, 78, figs 62, 133.
Onchus clintoni Claypole.
Hay, O. P. 1902 A, 326.
Claypole, E. W. 1885 E, 90.

PHYSONEMUS M'Coy. Type *P. arcuatus* M'Coy.

- Hay, O. P. 1902 A, 333 (Physonemus, Xystracanthus).
Barkas, W. J. 1874 D, 546 (Drepanacanthus), 547 (Physonemus), 548 (Xystracanthus).
Bronn, H. G. 1849 A, 653
Eastman, C. R. 1902 B, 86, 87; text-fig. 12.
1902 E, 849
1903 B, 171, 183, 205 (Physonemus, Xystracanthus).
1917 A, 257, 262 (Xystracanthus, Drepanacanthus as syns.).
Hussakof and Bryant 1919 A, 164.
Jordan, D. S. 1919 B, 407.
1923 A, 95, 106 (Physonemus); 106 (Xystracanthus).
Zittel and Koken 1911 A, 63 (Xystracanthus).
Physonemus acinaciformis (St. John and Worth.).
Hay, O. P. 1902 A, 333 (Xystracanthus).
Eastman, C. R. 1903 B, 206, 210.
1917 A, 263.
Pennsylvanian; Illinois

- Dana, J. D. 1896 A, 550.
Eastman, C. R. 1907 B, 12.
Twenhofel, W. H. 1913 A, 303.
Middle Silurian (Clinton); Pennsylvania

Onchus murchisoni Agassiz.

- Agassiz, L. 1843 B (1837), in, 6, pl. i, fig. 1.
1839 A, 607? pl. iv, figs. 9, 11.
Ami, H. M. 1901 B, 309, 312.
M'Coy, F. 1853 C, 13
Murchison, R. I. 1853 A, 16.
Woodward, A. S. 1891 A, 94.
1901 C, 312.
1902 D, 203.
Lower Devonian (Knoblocht), Nova Scotia

Onchus pennsylvanicus Claypole.

- Hay, O. P. 1902 A, 326
Claypole, E. W. 1885 E, 90.
Eastman, C. R. 1907 B, 12
Upper Silurian (Salina); Pennsylvania

Onchus rectus Eastman.

- Hay, O. P. 1902 A, 326.
Clark and Ruedemann 1903 A, 767
Eastman, C. R. 1907 B, 22, 74; fig 16.
1908 A, 150, 289, pl. iii, fig. 9.
Hussakof and Bryant 1919 A, 168.
Upper Devonian (Chemung, Catskill); New York

Onchus sp. indet.

- Eastman, C. R. 1907 B, 12. Silurian (Niagara); Maryland
1908 A, 276 Middle Devonian, Quebec.

Physonemus anceps (Newb. and Worth.).

- Hay, O. P. 1902 A, 334 (Xystracanthus).
Eastman, C. R. 1903 B, 206 (Drepanacanthus); 210 (Physonemus)
1917 A, 263.
Pennsylvanian; Illinois.

Physonemus arcuatus M'Coy.

- M'Coy, F. 1848 A, 117.
Davis, J. W. 1883 A, 367, pl. xlvii, fig. 8.
Eastman, C. R. 1903 B, 208, 210, fig 12.
1917 A, 263, 264, pl. v, figs, 1, 2.
M'Coy, F. 1855 A, 638, pl. 31, fig. 20.
Woodward, A. S. 1891 A, 130.
This species is not to be confounded with Ledy's *Xystracanthus arcuatus*, now renamed *Physonemus asper* Eastman.
Lower Carboniferous; England, Ireland; Mississippian (St. Louis); Missouri, Illinois, Indiana.

Physonemus asper Eastman.

Eastman, C. R. 1903 B, 183, 210 (To replace *Xystracanthus arcuatus* Leidy, preoccupied).
1917 A, 263

Hay, O. P. 1902 A, 334 (*Xystracanthus arcuatus*).

Pennsylvanian; Kansas, Illinois.

Physonemus carinatus St. John and Worth.

Hay, O. P. 1902 A, 333.

Mississippian (Kinderhook); Illinois.

Physonemus chesterensis St. John and Worth.

Hay, O. P. 1902 A, 333

Mississippian (Chester); Illinois.

Physonemus falcatus St. John and Worth.

Hay, O. P. 1902 A, 333

Mississippian (St. Louis); Missouri.

Physonemus gemmatus (Newb. and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).

Eastman, C. R. 1903 B, 203, 209, 210.

1917 A, 263, pls. iii, iv; pl. v, fig. 3.

Mississippian (Keokuk); Iowa.

Physonemus gigas Newb. and Worth.

Hay, O. P. 1902 A, 333.

Eastman, C. R. 1902 E, 850.

1903 B, 206, 210, 213.

1917 A, 263

Mississippian (Burlington); Illinois.

Physonemus hamus-piscatorius Eastman.

Eastman, C. R. 1903 B, 207, 210, pl. v, figs. 45, 46.

Eastman, C. R. 1908 A, 149.

1917 A, 263.

Mississippian (Kinderhook); Iowa

Physonemus mirabilis (St. John and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).

Eastman, C. R. 1917 A, 263

Karpinsky, A. P. 1925 A, 135, fig. 15 (*Xystracanthus*).

Pennsylvanian; Illinois

Physonemus pandatus Eastman.

Eastman, C. R. 1903 B, 207, 210, pl. v, fig. 44.

Eastman, C. R. 1908 A, 149.

1917 A, 263

Mississippian (Kinderhook); Iowa.

Physonemus parvulus St. John and Worth.

Hay, O. P. 1902 A, 333.

Mississippian (Keokuk); Missouri, Illinois.

Physonemus proclivus St. John and Worth.

Hay, O. P. 1902 A, 333

Davis, J. W. 1884 A, 618.

Mississippian (Kinderhook); Iowa.

Physonemus reversus (St. John and Worth.).

Hay, O. P. 1902 A, 334 (*Xystracanthus*).

Eastman, C. R. 1903 B, 206 (*Drepanacanthus*).

Mississippian (St. Louis); Illinois, Missouri.

Physonemus stellatus Newb.

Hay, O. P. 1902 A, 333.

Eastman, C. R. 1903 B, 206, 209, 210.

1917 A, 263.

Hussakof, L. 1908 A, 49, fig. 21 (*Oracanthus*).

Mississippian (Keokuk); Illinois, Iowa; (St. Louis), Indiana.

PROSPIRAXIS Williams. Type *Spiraxis major* Newb.

Hay, O. P. 1902 A, 338

Jordan, D. S. 1923 A, 96.

Prospiraxis major (Newb.).

Hay, O. P. 1902 A, 338.

Upper Devonian (Chemung); New York.

Prospiraxis randallii (Newb.).

Hay, O. P. 1902 A, 338.

Upper Devonian (Chemung); Pennsylvania.

STETHACANTHUS Newb. Type *S. altonensis* (St. John and Worth.).

Hay, O. P. 1902 A, 333.

Clark, W. 1898 A, 46.

Eastman, C. R. 1902 E, 850.

1903 B, 213.

1917 A, 263, 266.

Hussakof and Bryant 1919 A, 164.

Jordan, D. S. 1920 B, 447.

1923 A, 93, 106.

Stethacanthus altonensis (St. John and Worth.).

Hay, O. P. 1902 A, 333.

Eastman, C. R. 1903 B, 214.

Hussakof, L. 1908 A, 50.

Mississippian (St. Louis); Illinois, Missouri.

Stethacanthus compressus Newb.

Hay, O. P. 1902 A, 333.

Mississippian (Burlington); Iowa.

Stethacanthus depressus (St. John and Worth.).

Hay, O. P. 1902 A, 333 (*Physonemus*).

Eastman, C. R. 1903 B, 216, fig. 15 (Incorrectly referred, *vide* Hussakof and Bryant)

Hussakof, L. 1913 A, 249.

Hussakof and Bryant 1919 A, 170, pl. liv, fig. 3.

Upper Devonian (Catskill); Pennsylvania:
Mississippian (Kinderhook); Iowa: (Waverly);
Michigan.

***Stethacanthus erectus* Eastman.**

Eastman, C. R. 1903 B, 217, pl. iii, fig. 29.

Hussakof, L. 1913 A, 249.

Mississippian (Kinderhook); Iowa.

***Stethacanthus exilis* Hussakof.**

Hussakof, L. 1913 A, 249, pl. xlvii, fig. 3.

Eastman, C. R. 1917 A, 266.

Mississippian (Waverly); Kentucky.

***Stethacanthus humilis* Hussakof.**

Hussakof, L. 1913 A, 248, pl. xlvii, figs. 1, 2.

Eastman, C. R. 1903 B, 217, pl. iii, fig. 29 (S. depressus).

1917 A, 266.

Hussakof, L. 1913 A, 249, foot-note.

Mississippian (Waverly); Kentucky.

***Stethacanthus præcursor* Hussakof and Bryant.**

Hussakof and Bryant 1919 A, 15, 169, pl. liv, figs. 1, 2.

Upper Devonian (Genesee); New York.

***Stethacanthus productus* Newb.**

Hay, O. P. 1902 A, 333 (S. productus, S. compressus).

Eastman, C. R. 1903 B, 215, fig. 14 (S. compressus a syn.).

1917 A, 266.

Mississippian (Burlington, Keokuk); Iowa.

***Stethacanthus tumidus* Newb.**

Hay, O. P. 1902 A, 333.

Hussakof, L. 1903 A, 50.

Mississippian (Cuyahoga); Ohio.

***Stethacanthus* sp. indet.**

Eastman, C. R. 1899 A, 642. Mississippian (Keokuk); Iowa.

Class OSTEICHTHYES.

Unless otherwise indicated the writers, as cited, include this group under the term *Pisces*.

Hay, O. P. 1902 A, 338.

Abel, O. 1912 F, 300, 672.

1914 C, 244 ("fische").

1920 A, 333 (Teleostomi).

1921 A, 144, 207, 247 ("fische").

1922 F.

Adams, C. C. 1902 A, 116 ("fish").

Adams, L. A. 1919 A, 62.

Adloff, P. 1904 B, 54 ("fische").

1907 A, 532 ("fische").

Agassiz, A. 1840 C, 97 ("poissons").

1859 A, 108 ("fishes").

1877 A, 117 ("bony fishes").

Agassiz, L. 1836 B, 24 ("poissons").

1840 A, 58 ("poissons").

1840 B, 62 ("poissons").

1844 C, 251 ("poissons").

1844 D, 132 ("fishes").

1858 A, 9 ("fishes").

Ahlborn, F. 1896 B, 1 ("fische").

Archel, O. 1919 A ("fische").

Allis, E. P. 1919 B, 73.

Anonymous, 1821 A, 272 ("fishes").

Alessandrini, A. 1849 A, 371.

Alix, E. 1874 B, 20 ("poissons osseux").

Allen, J. A. 1905 A, 662 ("fishes").

Allis, E. P. 1898 A, 457 ("fishes").

1905 A, 401 ("fishes").

1918 A, 241 ("fishes").

1919 A, 350 ("fishes").

Anthony, R. 1912 A ("poissons").

Ardt, T. 1907 D, 674.

Baraldi, G. 1877 A, *passim* ("pesci").

Bardeleben, K. 1901 A.

1907 A, 35 ("fische").

1907 B, 154 ("fische").

Barkas, W. J. 1874 D, 542 ("fishes").

Barrell, J. 1915 B, 392 ("fishes").

Baur, G. 1885 L ("vertebrates" in part).

Baur, G. 1893 D, 116 ("fische").

1896 F ("osseous fishes").

Bender, O. 1907 A, 39 ("fische").

Berry, E. W. 1925 A, 355 ("fishes").

Beyer, H. 1909 A, 32 ("fische").

Bittner, F. 1912 A, 1 ("fische").

Blamville, H. M. D. 1817 A, 104 ("poissons").

Bojanus, L. H. 1818 A, 498 ("fische").

1818 B, 2095 ("fische").

1821 A, 1157 ("fische").

Bonaparte, C. L. 1831 A, 89 (Ossei).

1832 A, 319.

1833 B, 1197 (Ossei).

Born, G. 1827 A, 182 ("fische").

Boulenger, G. A. 1917 B, 327 ("poissons").

Brandt, J. F. 1865 A, 21.

Bronn, H. G. 1849 A, 780, seq.

Broom, R. 1908 E, 114 ("bony fishes").

Bruch, C. 1862 A, 78 ("fische").

Burckhardt, R. 1903 A, 78 ("fische").

1906 A, 156 ("fische").

Cahall, W. C. 1890 A, 232 ("fishes").

Carus, V. 1875 A, 486

Carus and Engelmann 1861 A, 968-997, 1551-1562, 1669-1676, 1788.

Chaine, J. 1918 A, 733 ("poissons").

Chamberlin, T. C. 1900 A, 401.

Cleland, J. 1863 A, 119 ("fishes").

1863 B, 308.

1870 A, 120 ("fishes").

Cockerell, T. D. A. 1911 E, 209 ("fish").

1913 B, 119 ("fishes").

1916 B, 187 ("fish").

Collinge, W. E. 1894 A, 499 ("fishes").

1895 B, 274 ("fishes").

Connell, A. 1835 A, 300 ("fishes").

Cope, E. D. 1885 BB, 63.

1891 N, 7, 10.

Coulon, L. 1903 A, 99 ("poissons").

Coyle, R. F. 1909 A, 582 ("fishes").

Cunningham, J. T. 1912 A, 231-440 ("fishes").

- Cuvier, G. 1801 A, 25 ("poissons").
 1803 A, 166 ("poissons").
 1812 A, 123 ("poissons").
 1814 A, 73 ("poissons").
 1815 A, 102 ("poissons").
 Dahl, K. 1909 A, 758 ("fish").
 Dana, J. D. 1863 A, 31 ("fishes").
 1863 C, 343 ("fishes").
 Darton, N. H. 1909 A, 567 ("fish").
 Davidoff, M. 1879 A, 450 ("fische").
 Dean, B. 1900 A, 22 ("fishes").
 1902 C, 702.
 1904 C, 437 ("fishes").
 1916 A ("fishes").
 Dean and Eastman. 1916 A.
 1917 A.
 Deninger, K. 1914 A, 183-214 ("fische").
 1915 A, 181-183 ("fische").
 Dependorf, T. 1907 A, 546 ("fische").
 Depéret, C. 1907 B ("poissons").
 Dienet, C. 1909 A, 32 ("fische").
 Doderlein, L. 1902 A 433 ("fische").
 Dohrn, A. 1884 A, 140 ("fische").
 Dollo, L. 1889 E, 146, 152 ("poissons").
 1893 D, 5 ("poissons").
 Dugès, A. 1905 A 107 ("poissons").
 1905 B, 798 ("fishes").
 Dujardin, F. 1836 A, 319 ("poissons").
 Eastman, C. R. 1898 E, 177 ("fishes").
 1901 C, 327 ("fishes").
 1904 I, 648 ("fishes").
 1908 B, 23.
 1913 B, 677 ("fishes").
 1916 A, 655 ("fishes").
 Ebner, V. 1896 A, 123 ("fische").
 Eichwald, E. 1832 A, 858 ("fische").
 Eimer, G. H. T. 1901 A, 258 ("fische").
 Eisler, P. 1895 A, 17 ("fische").
 Erdl, M. 1843 A ("fische").
 Eschricht, D. F. 1851 A, 110 ("fische").
 Fiebiger, J. 1905 A, 140 ("fische").
 Filhol, H. 1899 A, 224 ("poissons").
 Forster, A. 1905 A, 89-138.
 Fraser, C. M. 1915 A, 113.
 Frass, E. 1905 B, 354 ("fische").
 Frassetto, F. 1915 A ("pesci").
 Friedmann, E. 1897 A, 546 ("knochenfische").
 Fryd, C. 1901 A, 7.
 Fuchs, H. 1907 C, 24 ("fische").
 Fulton, T. W. 1906 A, 48 ("fishes").
 Furburuger, M. 1902 A ("fische").
 Gaskell, W. H. 1905 A, 41 ("fishes").
 1908 A, 525 ("fishes").
 Gaupp, E. 1898 B, 826 ("fische").
 1899 A, 1004 ("fische").
 1906 A, 31 ("fische").
 1906 B ("fische").
 1911 C, 455 ("fische").
 Gegenbaur, C. 1866 A, 121 ("fische").
 1867 A, 55 ("fische").
 1867 B, 374 ("fische").
 1870 C, 398 ("fische").
 Geoffroy-St. Hilaire, E. F. 1807 A, 357 ("poissons").
 1807 B, 413 ("poissons").
 1807 C, 87 ("poissons").
 1807 E, 342 ("poissons").
 1817 A, 125 ("poissons").
 Geoffroy-St. Hilaire, E. F. 1817 B, 185 ("poissons").
 1822 A, 76 ("poissons").
 1822 B, 95 ("poissons").
 1824 B, 143 ("poissons").
 1824 C, 241 ("poissons").
 1824 D, 420 ("poissons").
 1825 A, 13 ("poissons").
 1832 A, 348 ("poissons").
 Gervais, P. 1859 A, 511 ("poissons").
 Gill, T. 1873 E, 435.
 1875 B, 251 ("teleosteous fishes").
 1885 B, 29 ("fishes").
 1896 A, 696.
 1898 A, 696.
 1903 A, 255 ("fishes").
 1903 B, 488 ("fishes").
 1905 A, 655.
 1907 A, 491.
 1909 A, 193 (Osteophora).
 Goette, A. 1901 A, 533 ("fische").
 Goodrich, E. S. 1906 A, 333 ("fish").
 1909 A, 210 (Osteichthyes).
 1910 A, 24 ("fish").
 1913 A, 80 ("fishes").
 1924 A, 935 (Osteichthyes).
 Goodson, J. 1857 A.
 1857 B.
 Gregory, W. K. 1910 B, 509 ("fishes").
 1923 A, 238 (Osteichthyes).
 Gregory and Adams. 1915 A, 763 (Osteichthyes).
 Gregory and Noble. 1924 A, 436 ("fishes").
 Green, J. 1858 A 362 ("fishes").
 Gulliver, G. 1896 A, 397 ("osseous fishes").
 Haller, G. 1924 A, 305 ("knochenfische").
 Hase, A. 1911 B.
 1913 A ("fische").
 Hasse, C. 1872 A, 417-488.
 1873 A, 584-610, pls. xxvii, xxviii ("fische").
 Hatschek, B. 1889 A, 82 ("fische").
 Hay, O. P. 1897 A, 131 ("fishes").
 1917 H, 383 ("fishes").
 Heilprin, A. 1887 A, 418 ("fishes").
 Hennig, E. 1920 B, 112.
 Henshaw, H. W. 1912 A, 318 ("fishes").
 Hertwig, O. 1892 A.
 Hilgard, T. C. 1857 A, 98 ("fishes").
 1859 A, 335 ("fishes").
 1860 A, 678 ("fishes").
 Hilzheimer, M. 1913 A, 468 ("fische").
 Hofer, B. 1890 A, 103 ("fische").
 Hollard, H. 1863 A, 38 ("poissons").
 1863 B, 633 ("poissons").
 1864 A, 5 ("poissons").
 1864 B, 241 ("poissons").
 1864 C, 359 ("poissons").
 Houssay, F. 1909 A, 617 ("poissons").
 1909 B, 943 ("poissons").
 1909 C, 1076 ("poissons").
 Howes, G. B. 1894 A, 78, 87 (Osteichthyes).
 Hubbs, C. L. 1919 A, 570.
 1919 B, 61 ("fishes").
 1926 A, 57 ("fishes").
 Hubrecht, A. A. W. 1908 A, 56 (Osteophora).
 Huene, F. 1907 A, 151-152 ("fische").
 1908 H, 156-175 ("fische").
 1910 F, 147-163 ("fische").
 1911 G, 146-161 ("fische").
 1926 A, 261 ("fische").

- Huntsman, A. G. 1919 A, 592.
Huschke, E. 1822 A, 889 ("fische").
Hussakof, L. 1910 A, 925 ("fishes").
Huxley, T. H. 1853 A, 150 ("mackerel").
1859 D, 442 ("fishes").
1859 H, 33, 44 ("fishes").
1863 E, 418.
1863 F, 187, 189 ("bony-fish").
1870 F, 538.
1876 E, 84 ("fishes").
1881 A, 454 ("fishes").
Hyrtil, C. J. 1849 A, 79 ("fische").
1862 A, 95 ("fische").
Ihring, H. 1878 A, 74 ("knochenfische").
1909 A, 287 ("fische").
Jacobshagen, E. 1920 A, 88, 95 ("fische").
Jaekel, O. 1901 B, 52 ("fische").
1903 F, 28, 47.
1906 D, 188.
1909 A, 200.
1909 D, 707 ("fische").
1911 A, 25.
1913 A, 77 ("fische").
1925 A, 165 ("fische").
Jordan, D. S. 1898 A, 173 ("fishes").
1901 A ("fishes").
1902 A, 240 ("fishes").
1904 A, 597 ("bony fishes").
1905 A, 598 (Teleostomi).
1905 B ("fishes").
1919 C, 337 ("fishes").
1922 C, 177 ("fishes").
1923 A ("fishes").
Jordan and Gilbert 1882 A, 73.
Kehrer, F. A. 1896 A, 346 ("fische").
Kemna, A. 1903 A, 340 ("poissons").
Kesteven, H. L. 1922 A, 307 ("fishes").
Keyes, C. 1924 A, 233 ("fishes").
Kingsley, J. S. 1885 A, 90.
1901 A, 197 ("bony fishes").
1925 A, 27, 223, 231 ("fishes").
Klaatsch, H. 1893 B, 649 ("fische").
1893 C, 143 ("fische").
Klein, E. E. 1868 A ("fische").
1884 A ("knochenfische").
1885 A ("knochenfische").
Kner, R. 1860 B, 807 ("fische").
1861 A, 232 ("fische").
Koken, E. 1889 B, 117 ("fische").
1893 B, 640 ("fische").
1898 B, 142 ("fische").
Kolmer, W. 1923 A, 530 ("fische").
Kolzoff, N. K. 1896 A, 514 ("knochenfische").
Kostlin, O. 1844 A, 304 ("knochenfische").
Larger, R. 1913 A ("poisson").
Lavocat, A. 1884 A, 1126 ("poissons").
1885 A, 28 ("poissons").
1888 A, 62 ("poissons").
1889 A, 42 ("poissons").
1896 B, 193 ("poissons").
1897 A, 138 ("poissons").
Le Damany, P. 1902 A, 333 ("poissons").
1903 G, 150, fig. 7 ("poissons").
Ledouble, A. F. 1903 A, 647 ("poissons").
1906 A, 551 ("poissons").
Leidig, F. 1850 A, 170 ("knochenfische").
Lemoine, V. 1889 A, 233 ("poissons").
Leunis and Ludwig 1883 A, 631.
Lönnerberg, E. 1901 A.
1902 A.
Lutken, C. F. 1881 A, 1-14; 107-123.
Macdonald, W. 1839 A, 69 ("osseous fishes").
1841 A, 131 ("fishes").
1863 A, 57 ("fishes").
1871 A, 473 ("osseous fishes").
M'Donnell, R. 1864 A, 161 ("fishes").
McMurrich, J. P. 1912 A, 168.
Mandl, L. 1840 A, 338 ("poissons").
Marsh, O. C. 1899 C, 71 ("fishes").
Mayer, A. F. 1862 A, 108 ("fische").
Meckel, J. F. 1825 A ("knochenfische").
Meunier, S. 1903 A, 774 ("poissons").
Mivart, St. G. 1871 B, 378 ("osseous fishes").
Montgomery, T. H. 1901 A, 21733 ("fishes").
Moode, R. L. 1920 C, 47 ("fishes").
1922 B, 320 ("fishes").
Mutel, — 1921 A, 522 ("poissons").
Noorden, C. 1883 A, 235 ("knochenfische").
Nusbaum, J. 1908 A, 513 ("knochenfische").
Oken, L. 1818 A, 512 ("fische").
1819 A, 1531 ("fische").
1823 B, 448 ("fische").
Ortman, A. E. 1901 A, 694 ("fishes").
Osborn, H. F. 1916 E, 511 ("fishes").
1917 B, 313 ("fishes").
1926 C, 339 ("fishes").
Osburn, R. C. 1906 B, 585 ("fishes").
Owen, R. 1846 E ("fishes").
1848 B ("osseous fishes").
1868 A, 900.
Paramore, R. H. 1910 A, 1393 ("fishes").
Parker, G. H. 1904 A, 496 ("fishes").
Perner, E. 1920 A ("poissons").
Pompeckj, J. F. 1914 A, xci ("fische").
Pouchet, G. 1875 A, 288 ("poissons osseux").
1878 A, 34, 140 ("poissons osseux").
Rauther, M. 1919 A, 215 ("fische").
Regan, C. T. 1906 A, 724.
1909 B, 75.
1924 A, 175 ("fishes").
Reichert, K. B. 1849 A, 494, 508 ("fische").
Reis, O. 1894 B, 87 ("fische").
Retterer, E. 1905 A, 125 ("poissons").
1905 C, 246 ("poissons").
1905 D, 366 ("poissons").
1908 B, 537 ("poissons").
Richardson, J. 1846 A, 199 (Ostinopteri); 329 (Ossei).
Ridewood, W. G. 1896 A, 380 ("fishes").
Ryder, J. 1885 E, 90 ("fishes").
1887 A, 344 (Ichthyos, in part).
Sewertzoff, A. N. 1918 A, 206 ("fishes").
1926 D, 76, 90 (Osteichthyes).
Sabatier, A. 1896 A, 121 ("poissons").
1897 A, 932.
1898 A, 930 ("poissons osseux").
1902 A, 100 ("poissons").
1903 A, 893 ("poissons").
Sagemehl, M. 1883 A ("knochenfische").
Salbey, R. 1868 A, 729 ("fische").
Schlosser, M. 1917 A, 131 ("fische").
Schmalhausen, J. J. 1913 C ("fische").
1917 A, 108 ("fishes").
1923 A, 534 ("fische").
Schubert, R. J. 1906 A, 627 ("fische").
Schuchert and Barrell 1914 A, 25.

- Scott, W. B. 1917 A, 176 ("fishes").
 Seeley, H. G. 1872 B, 26 ("fish").
 Serres, M. 1852 B, 192 ("poissons").
 Sewertzoff, A. N. 1896 A, 271 ("fische").
 1897 A, 411 ("knochenfische").
 1923 A, 408 (Osteichthyes).
 1923 B, 145 (Osteichthyes).
 1926 A, 508, 526, 537 (Osteichthyes).
 1926 B, 579 (Osteichthyes).
 1926 C, 44 (Osteichthyes).
 1926 E, 555 (Osteichthyes).
 Shann, E. W. 1919 A, 532 (Osteichthyes).
 Shepherd, C. A. 1910 A, 418.
 Simpson, G. G. 1925 D, 289.
 Solger, B. 1880 A, 364 ("knochenfische").
 Spencer, W. B. 1886 A, 233.
 Springer, F. 1924 A, 233 ("fishes").
 Stadtmüller, F. 1926 A, 155 ("knochenfische").
 Stannius, H. 1842 C, 97 ("fische").
 1849 A, 533 ("knochenfische").
 Staik, E. C. 1900 A ("fish").
 1905 A, 754 ("fishes").
 1908 A, 413 ("fish").
 1926 A, 82 ("fishes").
 Steenstrup, J. 1861 A, 368 ("poissons").
 Steinman, G. 1907 A, 405 (Euthiches).
 1908 A, 205 ("knochenfische").
 1912 A, 48 ("fische").
 Stephan, P. 1900 A, 281 ("poissons").
 Storch, O. 1911 A, 195 ("fische").
 Strecker, C. 1887 A, 301 ("knochenfische").
 Stromer, E. 1912 A, 15.
 1920 A, 18 ("fische").
 Sutton, J. B. 1884 A, 570 ("fish").
 Swinerton, H. H. 1911 A, 447 ("fishes").
 Tascenburg, O. 1894 A, 3345-3366.
 Taylor, H. F. 1916 A, 289 ("fish").
 Terra, P. 1911 A, 134, 197.
 Terry, R. J. 1919 A, 525 ("fishes").
 Thilo, O. 1896 A, 285 ("fische").
 1896 B, 96 ("fische").
 1897 A, 171 ("fische").
 1898 A, 141 ("fische").
 1898 B, 81 ("fische").
 1910 A, 18 ("fische").
 1900 B, 19 ("fische").
 Thilo, O. 1903 A, 528 ("fische").
 1913 A, 289 ("fische").
 Tomes, C. S. 1875 C, 362 ("fish").
 1877 A, 44 ("fish").
 1900 A, 35 ("osseous fishes").
 Traquair, R. H. 1900 C, 502 ("fishes").
 Vaillant, L. 1874 A, 406 ("poissons").
 Vanhoffen, E. 1891 A, 134 ("fische").
 Vert, O. 1916 A, 375 ("fische").
 Versluys, J. 1912 A, 501 ("fische").
 1925 B, 182 ("knochenfische").
 Wagner, R. 1843 A, 204 (Ostacanthi).
 Wallace, A. R. 1876 A, 1, 494; 11, 575 ("fishes").
 Watson, D. M. S. 1917 A, 981 ("fish").
 1917 B, 61 ("fishes").
 Webb, W. M. 1905 A, 59 ("fishes").
 Weber, E. H. 1821 A, 1059.
 Weidenreich, F. 1926 A, 46 ("fische").
 White, C. 1885 A, 44 ("fishes").
 Whitehouse, R. H. 1914 A, 522 ("fishes").
 1918 A, 135 ("fishes").
 Wiedersheim, R. 1881 B, 326.
 1892 A, 43 ("fische").
 Wilbrand, J. B. 1824 A, 982 ("fische").
 Wilder, B. G. 1865 A, 56 ("fishes").
 1872 B ("fishes").
 Williamson, W. C. 1851 A, 643 ("fishes").
 Winslow, G. M. 1898 A, 186 ("fishes").
 Woodward, A. S. 1898 B, 18.
 1898 C, 257 ("fishes").
 1909 A, 323 ("fishes").
 1910 B, 464 ("fishes").
 1917 D, 14v ("fishes").
 1920 D ("fishes").
 1922 C, 53, 61.
 Woodward and Sheborn 1891 A, 26.
 Woodward, H. 1904 B, 139 ("fishes").
 Wright, E. P. 1878 A, 286 ("fishes").
 1878 B, 149 ("fishes").
 Wyman, J. 1867 B, 264 ("fishes").
 Ziegler, H. E. 1901 A ("knochenfische").
 1908 A, 721 ("knochenfische").
 Zittel, K. A. 1901 A, 409 ("fishes").
 Zittel and Koken 1911 A, 3 (Pisces, in part).
 Zittel and Schlosser 1923 A, 5 (Pisces, in part).
 Zittel and Woodward 1902 A, 2.

Subclass OSTRACOPHORA Cope.

- Cope, E. D. 1891 G, 646.
 Hay, O. P. 1902 A, 359 (Aspidogonoides).
 Abel, O. 1912 F, 206, 476 ("ostracoderms").
 Barrell, J. 1915 B, 372 ("ostracoderms").
 Berry, E. W. 1925 A, 356 ("ostracoderms").
 Bridge, T. W. 1904 A, 149, 522, 749 (Ostracodermi).
 Bryant, W. L. 1926 B, 256 ("ostracoderms").
 Caypo'e, E. W. 1900 A, 248 ("ostracoderms").
 Cope, E. D. 1889 R, 852, 853 (Arrhina).
 1891 N, 9.
 Cunningham, J. T. 1912 A, 250 ("ostracoderms").
 Dean, B. 1900 A, 13 ("ostracoderms"); 22 (Ostracophora).
 1901 C, 110, seq. (Ostracophori).
 1912 A, 226 ("ostracophores").
 Dollo, L. 1903 D, 700 ("ostracoderms").
 1910 A, 390 ("ostracoderms").
 Eastman, C. R. 1898 E, 183 (Ostracodermi).
 1900 G, 287 ("ostracoderms").
 1901 D, 329 ("ostracoderms").
 1904 C, 141 ("ostracophores").
 1905 A, 46 ("ostracophores").
 1906 D, 2 (Ostracophori).
 1907 B, 23, 24, 232 (Ostracophori).
 1908 A, 54, 59, 69 ("ostracophores").
 1917 A, 237 (Ostracodermi).
 Fraipont, C. 1912 A, 66 ("ostracophores").
 Gadow, H. 1910 A, 27 (Ostracodermi).
 Gaskell, W. H. 1908 A, 326, 343 (Ostracodermata).
 Goodrich, E. S. 1904 A, 493 (Ostracodermi).
 1909 A, 194, 407 (Ostracodermi).
 Gregory, W. K. 1915 D, 318, 341 (Ostracodermi).
 1922 A, 3 ("ostracoderms").
 1928 A, 4, fig. 2 ("ostracoderms").
 Hussakof, L. 1906 A, 135 (Euostracophora).

- Hussakof and Bryant 1919 A, 21 (Euostracophori).
 Jaekel, O. 1902 A, 103 ("placodermen" in part).
 Jordan, D. S. 1903 A, 135 (Aspidoganoidei, Ostracophora).
 1905 A, i, 568; ii, 584 (Ostracophori).
 1907 B, 223, 759 (Ostracophori).
 1923 A, 84 (Ostracophori).
 Kemna, A. 1903 A, 347 ("ostracodermes").
 1904 A, 14 ("ostracodermes").
 Keyes, C. A. 1922 A, pl. iii (Ostracodermata).
 Kiaer, J. 1924 A, *passim* (Ostracodermi).
 1928 A, 118 ("ostracodermes").
 Kingsley, J. S. 1925 A, 10, 90 (Ostracodermata).
 Lankester, E. R. 1897 A, 45 (Ostracodermi).
 Moodie, R. L. 1915 I, 138, 140 ("ostracodermes").
 1926 A, 75.
 1928 A, 348 (Ostracodermi).
 Parker and Haswell 1897 A, 243 (Ostracodermi).
 Patten, W. 1902 B, 180 ("ostracodermes").
 1903 A, 223 ("ostracodermes").
 1903 B, 828 ("ostracodermes").
 1903 C, 488 ("ostracodermes").
 1903 D, 1 ("ostracodermes").
 1904 A, 123 ("ostracodermes").
 Patten, W. 1905 A, 297 ("ostracodermes").
 1905 B, 140 ("ostracodermes").
 1912 A, 485 ("ostracodermes").
 1925 A, x ("ostracodermes").
 1926 A, 237 ("ostracodermes").
 Raymond, P. E. 1925 A, 433 ("ostracodermes").
 Schmalhausen, J. J. 1913 A, 76 (Ostracodermi).
 Schuchert, C. 1915 A, 686 (Ostracodermi).
 Stetson, H. C. 1928 A, 230.
 Stromer, E. 1905 H, 216 (Ostracodermi).
 1912 A, 36, 48 (Ostracodermi).
 1920 A, 11 (Ostracodermi).
 Thevenin, A. 1910 A, 35 ("ostracodermes").
 Traquair, R. H. 1900 C, 504 (Ostracodermi).
 1903 A, 731 (Ostracodermi).
 Woodward, A. S. 1897 B, 144 (Ostracodermi).
 1906 A, 313 (Ostracodermi).
 1906 C, 267 ("ostracodermes").
 1910 D, 31 ("ostracodermes").
 1915 B, lxiii (Ostracodermi).
 1920 D, 26 (Ostracodermi).
 1922 C, 53 (Ostracodermi).
 Woodward, H. 1904 B, 139 (Ostracodermi).
 Zittel and Woodward 1902 A, 50 (Ostracodermi).

Order PTERASPIDOMORPHI Goodrich.

- Goodrich, E. S. 1909 A, 195.
 Unless otherwise indicated, the authors, as cited, employ the name *Heterostraci*.
 Hay, O. P. 1902 A, 339.
 Adams, L. A. 1919 A, 112.
 Andrews, A. 1901 B, 507.
 Barrell, J. 1915 B, 402.
 Bridge, T. W. 1904 A, 524, 742.
 Claypole, E. W. 1900 A, 245.
 Cope, E. D. 1891 N, 9.
 Dean, B. 1900 A, 22.
 1901 C, 113.
 Dean, Gudger, Henn 1923 A, 401, 663.
 Eastman, C. R. 1903 E, 573.
 1907 B, 23, 25, 27, 28.
 1908 A, 69, 72.
 Goodrich, E. S. 1908 A, 754.
 Jaekel, O. 1903 D, 41.
 1911 A, 32.
 1913 A, 85 ("heterostraken").
 Jordan, D. S. 1905 A, i, 573; ii, 574
 1907 B, 759.
 1923 A, 85.
 Kemna, A. 1903 A, 348, 350, 368.
 Kiaer, J. 1924 A, 114, 116, 123 (Heterostraci);
 116 (Pteraspitomorphi).
 1928 A, 117, 125 ("pteraspids").
 Koken, E. 1899 B, 172 (Aspidorhina).
 Lankester, E. R. 1868 A, 14, 16.
 1870 C, 62.
 Osburn, R. C. 1907 B, 173.
 Parker and Haswell 1897 A, 243.
 Pompeckj, J. F. 1913 A, 1110.
 Regan, C. T. 1904 A, 344.
 Rohon, J. V. 1902 A, 27 (Aspidorhina).
 Rosén, N. 1916 A, 11, 30.
 Sauvage, H. E. 1901 C, 66.
 Schlosser, M. 1917 A, 132, 133.
 Simpson, G. G. 1925 D, 289.
 1926 J, 173 ("ostracodermes").
 Stetson, H. C. 1928 A, 223.
 Stromer, E. 1912 A, 37.
 1920 A, 11, 12.
 Traquair, R. H. 1899 A, 853.
 1899 C, 602.
 1900 C, 504.
 1903 A, 731.
 Woodward, A. S. 1922 C, 54.
 Woodward, H. 1878 A, 6.
 1904 B, 140.
 1920 D, 28.
 Zittel and Koken 1911 A, 28.
 Zittel and Schlosser 1923 A, 29.
 Zittel and Woodward 1902 A, 50.

THELODONTIDÆ Jordan.

- Jordan, D. S. 1905 A, ii, 573.
 Unless otherwise indicated the authors, as quoted, use the names *Cœlolepidæ* or *Cœlolepididæ*.
 Andrews, A. 1901 B, 505.
 Abel, O. 1919 A, 72.
 Barrell, J. 1915 B, 398.
 Bryant, W. L. 1926 B, 257.
 Dollo, L. 1903 D, 701.
 Eastman, C. R. 1901 C, 323.
 1907 B, 23, 27, 91.
 Eastman, C. R. 1908 A, 55, 69, 160.
 Goodrich, E. S. 1909 A, 196.
 Jordan, D. S. 1923 A, 85 (Thelodontidæ).
 Kemna, A. 1904 A, 12 ("cœlolepidés").
 Kiaer, J. 1924 A, 17, 18, 24, 94, 114, 116, 117, 119.
 Pander, C. H. 1856 A, 64 ("cœlolepiden").
 Pompeckj, J. F. 1913 A, 1111.
 Sauvage, H. E. 1901 C, 65.
 Schlosser, M. 1917 A, 146 ("cœlolepiden").
 Stetson, H. C. 1928 A, 221.

- Stromer, E. 1905 D, 314 ("Cœlolepiden").
 Traquair, R. H. 1899 A, 828, 843.
 1899 C, 597.
 1903 A, 731.
 Woodward, A. S. 1891 A, 157.

- Woodward, A. S. 1898 B, 28.
 1900 D, 71.
 Zittel, Eastman, etc. 1902 A, 50.
 Zittel and Koken 1911 A, 28.
 Zittel and Schlosser 1923 A, 29.

THELODUS Agassiz. Type *T. parvidens* Agassiz.

- Agassiz, L. 1839, Murchison's Silur. Syst., 606,
 704, pl. iv, figs. 34-36.
 Abel, O. 1919 A, 70, 73, figs. 33, 34.
 1920 A, 320, fig. 507.
 Adams, L. A. 1919 A, 120.
 Andreae, A. 1901 B, 505.
 Barrell, J. 1915 B, 394.
 Crook, C. V. 1901 A, 119.
 Dean, Gudger, Henn 1923 A, 401, 663.
 Deecke, W. 1926 A, 185.
 Dollo, L. 1910 A, 390.
 Eastman, C. R. 1901 C, 328.
 1908 A, 55, fig. 1.
 Goodrich, E. S. 1908 A, 754, fig. 196.
 1909 A, 196, 517, fig. 168.
 Hülzheimer, M. 1913 A, 468.
 Jaekel, O. 1911 A, 36, fig. 23.
 Jordan, D. S. 1919 B, 309 (Syn. of *Asterodon*).
 MacBride, E. W. 1910 A, 18.
 M'Coy, F. 1853 C, 14.
 1855 A, 576.
 Murchison, R. 1853 A, 16.
 1854 A, 238.
 Pander, C. H. 1856 A, 66, pls. iv, vi (*Cœlo-*
lepis), 67 (*Pachylepis*, *Thelopsis*).
 Pompeckj, J. F. 1913 A, 1110, figs. 3, 6.
 Preobrajensky, J. A. 1911 A, 26 (*Cœlolepis*,
Thelodus).
 Powrie, J. 1870 A, 298, pl. xiv, fig. 16 (*Ceph-*
opteris).
 Roemer, F. 1885, Palaeont. Abhandl., II, 359, pl.
 xxxi, figs. 21-25.
 Rohon, J. V. 1893 A, 11.
 Rosén, N. 1916 A, 12, fig. 5.
 Sauvage, H. E. 1901 C, 63 (*Thelodus*, *Cœlolepis*)

- Smith, B. 1910 A, 656.
 Stensuð, E. A. 1927 A, 331.
 Stetson, H. C. 1928 A, 221.
 Stromer, E. 1912 A, 37, fig. 47.
 1920 A, 13.
 Traquair, R. H. 1899 A, 829, pl. i (*Cœlolepis* a
 syn.).
 1899 C, 595, pl.
 1900 B, 465.
 1900 D, 66.
 1903 A, 731.
 1905 B, 880, pl. i, text-fig. 1.
 Woodward, A. S. 1891 A, 158 (*Cœlolepis*, *Thelo-*
odus).
 1898 B, 28 (*Cœlolepis*, *Thelodus*).
 1904 C, 186.
 1906 C, 267, fig. 1.
 1920 D, 28, fig. 28
 1922 C, 55.
 Zittel, Eastman, etc. 1902 A, 51, fig. 99.
 Zittel and Koken 1911 A, 29, figs. 33, 34.
 Zittel and Schlosser 1923 A, 29, fig. 35.
***Thelodus macintoshi* Stetson.**
Stetson, H. C. 1928 A, 223, figs. 1-6.
 Silurian (Niagara?); New Brunswick.
***Thelodus* sp. indet.**
 Eastman, C. R. 1907 B, 13. Lower Devonian
 (Oriskany); Nova Scotia.
 1908 A, 72, 266, pl. i, figs. 7, 8, 15; pl. ii,
 figs. 13, 14 (This genus?). Middle De-
 vonian (Columbus limestone); Ohio.
 Stauffer, C. R. 1909 A, 169 (*Cœlolepis*); 170.
 Middle Devonian (Columbus); Ohio.

ASTRASPIDÆ Eastman.

- Eastman, C. R. 1917 A, 237.
 Jordan, D. S. 1923 A, 85.

- Zittel and Schlosser 1923 A, 31.

EOICHTHYS Bryant. Type *E. howelli* Bryant.

- Bryant, W. L. 1926 A, 236.
***Eoichthys howelli* Bryant.**
 Bryant, W. L. 1926 A, 236.

- Howell, B. F. 1926 A, 236 ("fish plate?").
 Cambrian (St. Albans shale); Vermont. A
 doubtful fish plate. No description.

ASTRASPIDIS Walcott. Type *A. desiderata* Walcott.

- Hay, O. P. 1902 A, 342.
 Clarke, J. M. 1895 A, 121 ("fossil fishes").
 Eastman, C. R. 1915 B, 439.
 1917 A, 238.
 Rogers, A. F. 1924 A, 546.
 Schlosser, M. 1917 A, 132 ("spuren von fischen").
 Stensuð, E. A. 1927 A, 314.
 Stromer, E. 1920 A, 10, 11.
 Vaillant, L. 1902 A, 1321 ("poissons").
 Walcott, C. D. 1891 A, 245 ("fish").
 Woodward, A. S. 1921 A, 179.

- Woodward, A. S. 1922 C, 58.
 Zittel and Schlosser 1923 A, 32.
***Astraspis desiderata* Walcott.**

- Hay, O. P. 1902 A, 342.
 Cockerell, T. D. A. 1913 A, 246.
 Eastman, C. R. 1907 B, 12.
 1908 A, 75.
 1917 A, 238, pl. xii, figs. 5, 6.
 Jaekel, O. 1892 C, 168 ("fish remains").
 1895 D, 162.

- Jordan, D. S. 1905 A, 1, 578 (*Asteraspis*).
 Merrill, G. P. 1907 A, 7.
 Woodward, A. S. 1920 D, 33.
 Ordovician (Black River); Colorado.

***Astraspis* sp. indet.**

- Cockerell, T. D. A. 1913 A, 246. Ordovician?;
 Colorado.

PTERASPIDÆ Claypole.

- Hay, O. P. 1902 A, 339.
 Abel, O. 1919 A, 82.
 Allis, E. P. 1905 A, 488.
 Andrews, A. 1901 B, 507.
 Arlitt, T. 1907 D, 677.
 Bridge, T. W. 1904 A, 527.
 Bryant, W. L. 1926 B, 256.
 Dean, B. 1901 C, 110 ("pteraspids").
 Dean, Gudger, Henn 1923 A, 401, 663.
 Deecke, W. 1913 A, 87.
 Drevermann, F. 1904 A, 285 ("pteraspiden").
 Eastman, C. R. 1907 B, 23.
 1908 A, 55 ("pteraspidiens").
 Gebhardt, F. A. M. W. 1907 A, 73 ("pteraspiden").
 Goodrich, E. S. 1908 A, 754 ("pteraspids").
 1909 A, 198.
 Hilzheimer, M. 1913 A, 471.
 Howes, G. B. 1902 A, 525 ("pteraspidiens").
 Jaekel, O. 1902 A, 105 ("pteraspiden").
 1906 C, 156 ("pteraspiden").
 1906 D, 187 ("cyathaspiden").
 1907 A, 186 ("pteraspiden," "cyathaspiden").
 1911 A, 33 (Pteraspidi, suborder).
 1919 A, 73 ("pteraspiden")
 1921 A, 226, 233 ("pteraspiden").
 1926 A, 183.

- Jordan, D. S. 1905 A, 1, 570, 575.
 1907 B, 759.
 1923 A, 85.
 Kemna, A. 1903 A, 347, 350 ("ptéraspidés").
 1904 A, 14 ("ptéraspidés").
 Kiaer, J. 1924 A, 91, 92, 105, 114, 115, 122.
 Koken, E. 1899 B, 172.
 Lankester, E. R. 1897 A, 45.
 Osborn, H. F. 1902 H, 749 ("pteraspids").
 Patten, W. 1902 A, 392.
 1903 B, 827, 831.
 1912 A, 264, 366 (Pteraspida)
 Pompeckj, J. F. 1913 A, 1110, 1113.
 Reis, O. M. 1894 A, 64 ("pteraspiden").
 Rohon, J. V. 1902 A, 4, 27.
 Sauvage, H. E. 1901 C, 66.
 Schlosser, M. 1917 A, 132, 133 ("pteraspiden").
 Simpson, G. G. 1925 D, 289.
 Stemmann, G. 1907 A, 417.
 Stensio, E. A. 1927 A, 315.
 Stetson, H. C. 1928 A, 228.
 Stromer, E. 1920 A, 16.
 Trouessart, E. L. 1906 A, 213.
 Woodward, A. S. 1898 B, 5.
 1920 D, 29 ("pteraspidiens")
 Zittel and Koken 1911 A, 30.
 Zittel and Schlosser 1923 A, 32.
 Zittel and Woodward 1902 B, 52.

PTERASPIS Kner. Type *Cephalaspis lewisi* Agassiz.

- Hay, O. P. 1902 A, 339.
 Abel, O. 1907 D, (161).
 1912 F, 207, 476, 695, fig. 464.
 1919 A, 83, figs. 44-47.
 1920 A, 322.
 Adams, L. A. 1919 A, 121.
 Allis, E. P. 1905 A, 488.
 Andrews, A. 1901 B, 507, fig. 3.
 Alth, A. 1884 A, 160.
 Barkas, W. J. 1874 D, 552.
 Bordage, E. 1892 A, 333.
 Bridge, T. W. 1904 A, 527, 753.
 Bryant, W. L. 1926 B, 256, 258.
 Claypole, E. W. 1896 B, 358.
 Cunningham, J. T. 1912 A, 250.
 Dean, B. 1904 D, 64.
 Dean, Gudger, Henn 1923 A, 401, 663.
 Dordodot, H. 1912 A, 21.
 1912 B, 64.
 Drevermann, F. 1904 A, 275.
 Eastman, C. R. 1901 C, 328.
 1902 C, 506.
 1905 A, 40, fig. 3.
 1908 A, 58.
 Fraipont, C. 1912 A, 66.
 Frech, F. 1897 A, 123.
 Gaskell, W. H. 1895 A, 36.
 Goodrich, E. S. 1908 A, 754, fig. 196.
 1909 A, 195, fig. 166.
 Gregory, W. K. 1915 D, 319.
 Haeckel, E. 1888 A, 445.

- Heilprin, A. 1887 A, 429.
 Hussakof, L. 1906 A, 134.
 Huxley, T. H. 1858 D, 510, pl. xv.
 1861 D, 458.
 1861 E, 417, figs. 1, 2.
 Jaekel, O. 1902 A, 105.
 1903 E, 92.
 1911 A, 33, fig. 18.
 1919 A, 74.
 1927 A, 261, fig. 6.
 Jordan, D. S. 1819 B, 232.
 Kemna, A. 1903 A, 345, figs. 7, 8.
 1904 A, 15, figs. 1-4.
 Kiaer, J. 1924 A, 91.
 1923 A, 119, pl. xii; text-figs. 1-3.
 Kingsley, J. S. 1925 A, 90.
 Lankester, E. R. 1864 C, 442.
 1864 D, 292.
 1865 B, 517.
 1868 A, 14, 28, figs. 4, 8.
 1897 A, 45.
 1905 A, 257, fig. 185.
 Lenche, M. 1903 A, 163.
 1906 B, 341.
 1906 C, 420.
 1912 A, 39.
 1912 B, 49.
 1924 A, 143.
 1925 A, 19, figs. 1, 2.
 Lutken, C. 1868 C.
 Mitchell, H. 1863 A, 31.

- Moodie, R. L. 1926 A, 76, 77.
 Osborn, H. F. 1905 N, 235.
 Patten, W. 1894 A, 435.
 1902 A, 379, 389, figs. 1-3.
 1902 B, 181, fig. 6.
 1903 A, 224.
 1903 B, 828, figs. 1-3.
 1903 D.
 1912 A, 293, 364, figs. 196, 197, 245.
 Pompeckj, J. F. 1913 A, 1110, fig. 8
 Powrie, J. 1861 A, 189.
 1863 A, 67, fig.
 1870 A, 284.
 Regan, C. T. 1904 A, 345.
 Rohon, J. V. 1902 A.
 Schuchert and Levene 1927 A, 266, fig.
 Simpson, G. G. 1926 K, 173.
 Stensio, E. A. 1926 A, 1, figs. 1-6.
 1927 A, 316.
 Stetson, H. C. 1928 A, 228.
 Storms, R. 1891 A, 116.
 Stromer, E. 1905 D, 314.
 1920 A, 14, 15.
 Symonds, W. S. 1884 A, 161.
 Traquair, R. H. 1900 C, 504.
 Trouessart, E. L. 1906 A, 213.
 Whiteaves, J. F. 1901 A, 182.
 Woodward, A. S. 1898 B, 6, figs. 3-6.
 1900 E, 203.
 1910 D, 31.
 1920 D, 29.
 1922 C, 55, figs. 50, 51.
 Woodward, H. 1878 A, 7, pl. i, fig. 3.

- Zittel and Koken 1911 A, 31.
 Zittel and Schlosser 1923 A, 33, figs. 38, 39.
 Zittel and Woodward 1902 A, 52.

Pteraspis crouchi Lankester.

- Lankester, E. R. 1865 A, 58.
 Abel, O. 1919 A, 82, figs. 44-45.
 1920 A, 322, fig. 511 (*P. crouchi*).
 Alth, A. 1884 A, 170.
 Ami, H. M. 1901 B, 309, 311 (This species?).
 Dawson, G. M. 1899 A, 182 (*Pteraspis* sp.).
 Fraipont, C. 1912 A, 69.
 Kemna, A. 1904 A, 15, figs. 1-4 (*P. crouchi*).
 Lankester, E. R. 1864 D, 292.
 1868 A, 30, pl. iii; pl. iv, fig. 5; pl. vi, figs. 4, 7, 8; pl. vii, figs. 4, 8, 11.
 1905 A, 259, figs. 187, 188.
 Leriche, M. 1903 A, 161, pls. v, vi, text-figs. 1, 2 (*P. crouchi*).
 1906 C, 413, pl. ii, text-figs. 9-12.
 1924 A, 145, pl. iii; text-figs. 2, 3 (*P. crouchi*).
 1925 A, 25.
 Stensio, E. A. 1926 A, 3, figs. 1, 4.
 1927 A, 317, fig. 86.
 Twenhofel, W. H. 1913 A, 303 (This species?).
 Woodward, A. S. 1887 A, 478, fig.
 1891 A, 167.
 1898 B, 6, fig. 5.
 1901 C, 311.
 1902 D, 203.
 Lower Devonian (Knorydard); Nova Scotia; Europe.

CYATHASPIS Lankester. Type *Pteraspis banksii* Huxley and Salter.

- Hay, O. P. 1902 A, 340.
 Abel, O. 1912 F, 476.
 1919 A, 86, fig. 48.
 Alth, A. 1884 A, 164.
 Arldt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 550.
 Bryant, W. L. 1926 B, 256.
 Claypole, E. W. 1896 B, 358.
 Dean, Gudger, Henn 1923 A, 663.
 Eastman, C. R. 1902 C, 506.
 1903 E, 575.
 1907 B, 30, 228.
 Gaskell, W. H. 1908 A, 523.
 Goodrich, E. S. 1909 A, 195, fig. 172.
 Hussakof, L. 1906 A, 134.
 Jaekel, O. 1902 A, 104.
 1903 D, 58.
 1903 E, 86, fig. 5.
 1921 A, 226, 233.
 1926 A, 162, 165, 183, fig. 5.
 1927 A, 260.
 Kemna, A. 1903 A, 351, 355, figs. 4, 5.
 1904 A, 24.
 Lankester, E. R. 1864 D, 292.
 1868 A, 14, 26, fig. 5.
 Leriche, M. 1906 B, 341, figs. 1, 2.
 1906 C, 414.
 Patten, W. 1902 B, 192.
 1903 A, 224.
 1903 B, 841.

- Patten, W. 1903 D, 13.
 1912 A, 344, 350.
 Pompeckj, J. F. 1913 A, 1110, fig. 4.
 Preobrazjensky, J. A. 1911 A, 25.
 Symonds, W. S. 1884 A, 161.
 Traquair, R. H. 1900 C, 504.
 Woodward, A. S. 1910 D, 31.
 1920 D, 29.
 1922 C, 55, fig. 49.
 Woodward, H. 1878 A, 8, fig. 4.
 Zittel and Koken 1911 A, 32.
 Zittel and Schlosser 1923 A, 33, fig. 40.
 Zittel and Woodward 1902 A, 53.

Cyathaspis acadica (Matthew).

- Hay, O. P. 1902 A, 340.
 Dana, J. D. 1896 A, 546 (*Diplaspis*).
 Eastman, C. R. 1907 B, 12.
 1908 A, 72.
 Kner, J. 1924 A, 124.
 Lambe, L. M. 1904 C, 14, 15, 33, 40.
 1912 A, 3 (*Diplaspis*).
 Matthew, G. F. 1907 A, 9 (*Diplaspis*).
 Moodie, R. L. 1926 A, 67 (*Cocosteus*).
 Silurian (Niagara?); New Brunswick.

Cyathaspis vaningeni Bryant.

- Bryant, W. L. 1926 B, 269, pl. ii, fig. 1; pl. iv, fig. 2.
 Silurian (Salma or Medina); New York.

Cyathaspis wardelli (Ruedemann).

Ruedemann, R. 1916, Bull. N. Y. State Mus., No. 189, 102, pl. xxxii, figs. 1-12; text-figs. 2, 3 (Anatropis).

Bryant, W. L. 1926 B, 206, pl. i, fig. 2; pl. ii, figs. 5, 6; pl. iv, fig. 1.
Silurian (Salina or Medina); New York.

PALÆASPIS Claypole. Type *P. americana* Claypole.

Hay, O. P. 1902 A, 340.
Ardt, T. 1923 A, 482 (Holaspis).
Bryant, W. L. 1926 B, 256, 258.
Claypole, E. W. 1896 B, 358.
1900 A, 248.
1903 A, 335.
Dean, Gudger, Henn 1923 A, 663.
Eastman, C. R. 1917 A, 239.
Frech, F. 1897 A, 123.
Goodrich, E. S. 1909 A, 199, fig. 170.
Jaekel, O. 1894 D, 466.
1919 A, 73, fig. 1 ("palæaspiden").
1925 A, 165 ("palæaspiden").
1928 A, 43 ("palæaspiden").
Kemna, A. 1903 A, 345.
Kiaer, J. 1924 A, 91.
Lerche, M. 1926 A, 18, pls. i, ii.
Osborn, H. F. 1916 E, 603, fig. 11.
1917 B, 165, fig.
Sewertzoff, A. N. 1926 C, 44 ("palæaspiden").
Simpson, G. G. 1926 K, 173.
Stensio, E. A. 1926 A, 1.
1927 A, 316, 326.
Traquair, R. H. 1900 C, 504.
Zittel and Koken 1911 A, 32.
Zittel and Schlosser 1923 A, 33.
Zittel and Woodward 1902 A, 53.

Palæaspis americana Claypole.

Hay, O. P. 1902 A, 340 (*P. americana*, *P. elliptica*).
Bryant, W. L. 1926 B, 261, pl. i; pl. ii, fig. 1.
Chamberlin, T. C. 1900 A, 402 (*Pteraspis*).
Claypole, E. W. 1884 C, 34 ("fish").
1884 D, 270 ("fish").
1884 E, 326 ("fish").
1885 E, 90.
Dana, J. D. 1896 A, 557, figs. 800-804.
Eastman, C. R. 1907 B, 12, 29.
1908 A, 73.
1917 A, 239.
Lambe, L. M. 1904 C, 15 (*P. elliptica*).
Symonds, W. S. 1884 A, 159 ("fish").
Silurian (Salina); Pennsylvania.

Palæaspis bitruncata Claypole.

Claypole, E. W. 1884 A, 124.
Hay, O. P. 1902 A, 340 (*P. americana*, in part).
Bryant, W. L. 1926 B, 264, pl. ii, fig. 3; pl. iii, figs. 2-5.
Claypole, E. W. 1885 E, 90.
Moodie, R. L. 1926 A, 67, 76.
Silurian (Salina); Pennsylvania.

EUPHANEROPIDÆ A. S. Woodward.

Hay, O. P. 1902 A, 341.
Eastman, C. R. 1907 B, 23.
Goodrich, E. S. 1909 A, 206.
Jordan, D. S. 1923 A, 86.
Kiaer, J. 1924 A, 136.
Lambe, L. M. 1904 C, 40.

Sauvage, H. E. 1905 A, 189.
Simpson, G. G. 1925 D, 289.
Zittel and Woodward 1902 A, 54.
This family may belong in the Cephalaspidomorphi (Osteostraci).

EUPHANEROPS Woodward. Type *E. longævus* Woodward.

Hay, O. P. 1902 A, 341.
Jordan, D. S. 1920 C, 491.
Kiaer, J. 1924 A, 125.
Lambe, L. M. 1912 A, 4.
Sauvage, H. E. 1905 A, 189.
Simpson, G. G. 1926 C, 400.
Whiteaves, J. F. 1907 B, 247.
Woodward, A. S. 1922 C, 54.
Zittel and Woodward 1902 A, 54.

Euphanerops longævus Woodward.

Hay, O. P. 1902 A, 341.
Amn, H. M. 1901 A, 174.
Clarke, J. M. 1913 A, 113.
Eastman, C. R. 1907 B, 16, 31.
1908 A, 280.
Kiaer, J. 1924 A, 29, 56, 58, 95, 125.
Lambe, L. M. 1904 C, 16, 34, 40.
Sauvage, H. E. 1905 A, 189.
Whiteaves, J. F. 1907 B, 248.
Zittel and Woodward 1902 A, 54.
Upper Devonian (Scaumenac); Quebec.

PSAMMOSTEIDÆ Traquair.

Traquair, R. H. 1899 A, 847.
Andrews, A. 1901 B, 507.
Bryant, W. L. 1926 B, 257.
Dean, Gudger, Henn 1923 A, 663.
Eastman, C. R. 1908 A, 55.
1915 B, 439.
Goodrich, E. S. 1909 A, 198.
Jaekel, O. 1911 A, 36.
1925 B, 168 ("psammosteiden").
Jordan, D. S. 1923 A, 85.

Kiaer, J. 1915 A, 21.
1924 A, 114.
Patten, W. 1912 A, 366.
Preobrazhensky, J. A. 1911 A, 19, 34.
Reis, O. M. 1894 A, 64 ("psammosteiden").
Sauvage, H. E. 1901 C, 66.
Woodward, A. S. 1922 C, 55.
Besides *Psammosteus*, Jordan refers to this family *Acanthaspis* and *Acantholepis*.

PSAMMOSTEUS Agassiz. Type *P. mæandrinus* Agassiz.

- Agassiz, L. 1844 B (1845), 103.
 Dames, W. 1898 C, 331.
 Dean, Gudger, Henn 1923 A, 401.
 Goodrich, E. S. 1909 A, 196, fig. 166.
 Kiaer, J. 1915 A, 21, 34, 54.
 Matthew, W. D. 1908 H, 110.
 Moodie, R. L. 1926 A, 70.
 Preobrazhensky, J. A. 1911 A, 24, 28, figs. 6-9.
 Traquair, R. H. 1899 A, 847.
 1900 C, 504.
 Woodward, A. S. 1895 B, 38, fig. 1.
 1911 B, 649, pl. ix.
 1915 B, lxiv.
 1920 D, 28.
 Zittel and Schlosser 1923 A, 31.
Psammosteus anglicus? Traquair.
 Traquair, R. H. 1898 A, 67, pl. 1, figs. 1, 2.

- Ami, H. M. 1901 B, 309, 312 (This species?).
 Twenhofel, W. H. 1913 A, 303 (This species?).
 Woodward, A. S. 1900 E, 203 (This species?).
 1901 C, 312 (This species?).
 1902 D, 203 (This species?).
 Lower Old Red Sandstone; England: Lower
 Devonian (Knoydair); Nova Scotia.

Psammosteus arcticus Kiaer.

- Kiaer, J. 1915 A, 23, pl. ii, figs. 5-7; pl. iii,
 figs. 1-IV; pl. v, figs. 4-5.
 Ellesmere Land.

Psammosteus complicatus Kiaer.

- Kiaer, J. 1915 A, 26, pl. ii, fig. 8; pl. v, figs.
 1-3; pl. vi, fig. 1-3; text-fig. 5.
 Upper Devonian; Ellesmere Land.

Order CEPHALASPIDOMORPHI Goodrich.

Goodrich, E. S. 1909 A, 200.

Unless otherwise indicated the authors, as
 cited below, use the name Osteostraci.

- Hay, O. P. 1902 A, 340.
 Abel, O. 1912 F, 432.
 1919 A, 69.
 1920 A, 321.
 Andreae, A. 1901 B, 507.
 Bridge, T. W. 1904 A, 527, 749.
 Claypole, E. W. 1900 A, 247.
 Cope, E. D. 1891 N, 9.
 Dean, B. 1900 A, 22 et seq.
 1901 C, 113.
 Eastman, C. R. 1903 E, 573.
 1907 B, 23; 27, 31.
 1908 A, 69, 74.
 Gaskell, W. H. 1908 A, 531.
 Huene, F. 1926 A, 260.
 Jaekel, O. 1903 D, 41.
 Jordan, D. S. 1905 A, i, 575; ii, 584.
 1907 B, 759.
 1923 A, 86.
 Kemna, A. 1903 A, 348, 371.

Kiaer, J. 1924 A, 114, 115 (Osteostraci); 117
 (Cephalaspidomorphi).

1928 A, 117, 124 ("cephalaspidæ").

Koken, E. 1899 B, 172 (Aspidocephali).

Lankester, E. R. 1868 A, 14.

1870 C, 33, 62.

Parker and Haswell 1897 A, 244.

Patten, W. 1902 A, 389 (Peltacephalata).

1903 D, 28 (Peltacephalata).

Pompeckj, J. F. 1913 A, 1113.

Regan, C. T. 1904 A, 340, 344.

1923 B, 458.

Rosén, N. 1916 A, 14, 30.

Schlosser, M. 1917 A, 132, 133.

Stensio, E. A. 1927 A, 16.

Stromer, E. 1920 A, 11, 12.

Traquair, R. H. 1900 C, 504.

Woodward, A. S. 1922 C, 57.

Woodward, H. 1878 A, 7.

1920 D, 31.

Zittel and Koken 1911 A, 33.

Zittel and Schlosser 1923 A, 33.

Zittel and Woodward 1902 A, 54 (Aspido-
 cephal).

CEPHALASPIDÆ Owen.

- Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 340.
 Abel, O. 1919 A, 73.
 Agassiz, L. 1844 D, 142 ("cephalaspidæ").
 Arlitt, T. 1907 D, 644.
 Bridge, T. W. 1904 A, 528.
 Bronn, H. G. 1849 A, 780, seq. (Cephalaspides)
 Carus, V. 1875 A, 596.
 Dean, B. 1901 C, 110 ("cephalaspidæ").
 Dean, Gudger, Henn 1923 A, 663.
 Eastman, C. R. 1904 C, 143.
 1906 D, 3.
 1907 B, 23.
 Fitzinger, L. J. 1873 A, 52 (Cephalaspides).
 Gaskell, W. H. 1901 A, 207 (Cephalaspida).
 Gebhardt, F. A. M. W. 1907 A, 73, 79 ("ceph-
 alaspiden").
 Goodrich, E. S. 1904 A, 493.
 1909 A, 203.
 Gregory, W. K. 1915 D, 341.

Heckel, J. 1851 A, 219 ("cephalaspiden").

Hilzheimer, M. 1913 A, 471.

Hoernes, R. 1886 A, 548.

Howes, G. B. 1902 A, 535 ("cephalaspidians").

Huxley, T. H. 1858 D, 503, 506, pl. xiv.

Jaekel, O. 1902 A, 105 ("cephalaspiden").

1903 D, 53 ("cephalaspiden").

1907 A, 185 ("cephalaspiden").

1911 A, 33 ("cephalaspiden"); 34 (suborder
 Cephalaspidi).

1913 A, 85 ("cephalaspiden").

1919 A, 83 ("cephalaspiden").

1921 A, 226 ("cephalaspiden").

1925 B, 168 ("cephalaspiden").

1926 A, 168 ("cephalaspiden").

Jordan, D. S. 1907 B, 759.

1923 A, 86.

Kemna, A. 1903 A, 347 ("cephalaspidæ").

Kiaer, J. 1924 A, *passim*, fig. 41.

Koken, E. 1899 B, 172.

- Lankester, E. R. 1868 A, 1.
1870 C, 62.
1897 A, 45.
- Lutken, C. 1871 A, 294 ("cephalaspiden").
- Moodie, R. L. 1928 A, 248.
- Patten, W. 1894 A, 435.
1903 B, 827, 841.
1903 D, 15.
1912 A, 358.
- Pompeckj, J. F. 1913 A, 1115.
- Pownie, J. 1870 A, 299.
- Raymond, P. E. 1925 A, 434 (Cephalaspida).
- Regan, C. T. 1904 A, 344.
- Schlosser, M. 1917 A, 132 ("cephalaspiden").
- Simpson, G. G. 1925 D, 289.
- Steinmann, G. 1907 A, 418.
1927 A, 80 ("cephalaspiden").
- Stensio, E. A. 1925 B, 161 ("cephalaspiden").
- Stetson, H. C. 1928 A, 228 ("cephalaspiden").
- Traquair, R. H. 1880 A, 147, 152.
- Trouessart, E. L. 1906 A, 212.
- Wiman, C. 1918 B, 91 ("cephalaspiden").
- Woodward, H. 1878 A, 23.
- Zittel and Koken 1911 A, 33.
- Zittel and Schlosser 1923 A, 34.
- Zittel and Woodward 1902 A, 54.
- CEPHALASPIS Agassiz. Type *C. lyelli* Agassiz.
- Hay, O. P. 1902 A, 341.
- Abel, O. 1907 D, (159).
1912 F, 432, 476, 664.
1919 A, 74, figs 36, 37.
1920 A, 321, fig. 509.
- Adams, L. A. 1919 A, 121.
- Agassiz, L. 1835 B, 346.
1839 A, 589, pl. i, fig. 1; pl. ii, figs. 1-9.
1844 C, 269.
- Ardt, T. 1923 A, 482.
- Bordage, E. 1892 A, 333.
- Bridge, T. W. 1904 A, 529; figs. 318, 319.
- Bronn, H. G. 1848 A, 213.
1849 A, 656.
- Claypole, E. W. 1896 B, 356.
1900 A, 246.
- Cunningham, J. T. 1912 A, 251.
- Davis, J. W. 1880 C, 67.
- Dean, B. 1909 B, 817.
- Dean, Gudge, Henn 1923 A, 663.
- Deeke, W. 1913 A, 88.
- Dollo, L. 1910 A, 390.
- Eastman, C. R. 1901 C, 328.
1902 C, 506.
1903 E, 573.
1904 C, 141.
1904 F, 703.
1905 A, 40, fig. 2.
1908 A, 58, 74.
1908 B, 31, fig. 5.
- Frech, F. 1897 A, 123.
- Gaskell, W. H. 1895 A, 36.
1908 A, 109, 521.
1910 A, 11.
- Gaudry, A. 1896 A, 169, fig. 149.
- Goodrich, E. S. 1904 A, 493.
1909 A, 201, figs. 173, 174.
- Gregory, W. K. 1915 D, 319.
- Heilprin, A. 1887 A, 149, 301.
- Huxley, T. H. 1858 D, 502.
1861 D, 458.
1861 E, 420.
- Jaekel, O. 1903 E, 90, figs. 3, 4.
1911 A, 35, fig. 21.
1926 A, 166.
- Kemna, A. 1903 A, 343, 345, fig. 12.
- Kiser, J. 1924 A, 96, fig. 41.
- Lankester, E. R. 1864 C, 442.
1864 D, 292.
1865 B, 517.
1868 A, 14, fig. 4.
1870 C, 43.
- Lankester, E. R. 1897 A, 45.
1905 A, 258, figs. 186, 187.
- Leriche, M. 1906 C, 37.
- Lucas, F. A. 1901 J, 24, fig. 4.
- Lutken, C. 1868 C
- MacBride, E. W. 1910 A, 17.
- McMurrich, J. P. 1901 A, 406.
- Mantell, G. A. 1844 A, 645.
- Meek, A. 1916 A, 34.
- Moodie, R. L. 1928 A, 349.
- Murchison, R. T. 1854 A, 252, pl. xxvii.
- Osborn, H. F. 1905 N, 235.
1916 E, 608
1917 B, 175
- Owen, R. 1866 A, 197.
- Patten, W. 1894 A, 436
1902 A, 379, 389.
1902 B, 181.
1903 B, 829, pls i, n; text-figs 5-7, 10.
1903 C, 488.
1903 D
1904 A, 113.
1912 A, 302, 343, 350, figs 232, 234.
- Pompeckj, J. F. 1913 A, 1113, fig 10.
- Pownie, J. 1861 A, 137, 189, fig.
1870 A, 284
- Regan, C. T. 1904 A, 345.
- Steinmann, G. 1908 A, 204
- Stensio, E. A. 1927 A, 316, 326, pls. i-xu, xvi-xl, xlii, lxi-xcix, cv-cxii.
- Traquair, R. H. 1899 B, 591, pl.
1900 C, 504.
- Trouessart, E. L. 1906 A, 213.
- Wiman, C. 1918 B, 92.
- Woodward, A. S. 1906 C, 268, fig. 2.
1910 D, 31.
1920 D, 31, fig. 4.
1922 C, 57, fig. 53.
1925 A, 124.
- Woodward, H. 1878 A, 6, pl. i, fig. 4; text-figs. 7, 9.
- Zittel and Koken 1911 A, 33.
- Zittel and Schlosser 1923 A, 34, figs. 41-43.
- Zittel and Woodward 1902 A, 54.
- Cephalaspis campbelltonensis Whiteaves.**
- Hay, O. P. 1902 A, 341.
- Eastman, C. R. 1907 B, 12.
1908 A, 275.
- Jaekel, O. 1895 C, 161 (*C. campbelltonensis*, *C. whiteavesi*).
- Lambe, L. M. 1904 C, 15, 33, 40.

Patten, W. 1902 B, 188
 Whiteaves, J. F. 1907 B, 259.
 Lower Devonian; New Brunswick.

Cephalaspis dawsoni Lankester.

Hay, O. P. 1902 A, 341
 Barkas, W. J. 1874 D, 549.
 Dawson, J. W. 1870 B, 271 ("Cephalaspis").
 Eastman, C. R. 1907 B, 13.
 1908 A, 275.
 Lambe, L. M. 1904 C, 14, 15, 33, 40
 Lankester, E. R. 1870 D, 223.
 Lower Devonian; Quebec.

Cephalaspis jexi Traquair.

Hay, O. P. 1902 A, 341
 Eastman, C. R. 1907 B, 13.
 Lambe, L. M. 1904 C, 15, 33, 40
 Whiteaves, J. F. 1907 B, 260.
 Lower Devonian; New Brunswick.

Cephalaspis laticeps Traquair.

Hay, O. P. 1902 A, 341.
 Clarke, J. M. 1913 A, 113.
 Eastman, C. R. 1907 B, 16.
 1908 A, 280.
 Lambe, L. M. 1904 C, 16, 34, 40.
 1912 A, 4.
 Whiteaves, J. F. 1907 B, 248.
 Upper Devonian (Scaumenac); Quebec.

Cephalaspis sp. indet.

Ami, H. M. 1901 B, 309 Lower Devonian
 (Knorydard); Nova Scotia.
 Eastman, C. R. 1907 B, 13. Lower Devonian
 (Campbelltown); Nova Scotia
 1908 A, 275 Lower Devonian (Campbell-
 town), Nova Scotia.
 Twenhofel, W. H. 1913 A, 303. Lower De-
 vonian (Knorydard); Nova Scotia.
 Whiteaves, J. F. 1907 B, 261. Lower Devonian
 (Campbelltown); Nova Scotia.

Subclass AZYGOSTEI Hay.

Hay, O. P. 1902 A, 341
 Dean, B. 1902 C, 703.

Jordan, D. S. 1903 A, 136
 1923 A, 86.

Superorder PLACODERMI M'Coy.

M'Coy (Ann. Mag. Nat. Hist., ser. 2, vol. ii, 1848, 6) included in this group *Bothriolepis*, *Asterolepis*, *Psammosteus*, *Chelyphorus*, and *Cocosteus* and expressly excludes *Cephalaspis*. On page 278 of the same volume he includes *Pterichthys*, *Pamphractus*, *Polyphractus*, *Cocosteus*, *Asterolepis*, *Bothriolepis* and *Psammosteus*.

Hay, O. P. 1902 A, 342.
 Abel, O. 1927 B, 314, figs. 1-3 ("panzerfische").
 Adams, L. A. 1919 A, 120.
 Allis, E. P. 1905 A, 492.
 Arldt, T. 1907 D, 674.
 1923 A, 481 ("panzerfische").
 Carus, V. 1875 A, 596 (Placodermata).
 Cope, E. D. 1880 U, 150 ("placodermes").
 1891 B, 455 (Placodermata).
 Dean, B. 1901 A, 87 ("placodermes")
 1912 A, 226.
 1916 A ("fishes").
 Dean Gudger, Henn 1923 A, 592, 665.
 Depéret, C. 1907 B ("placodermes").
 Eastman, C. R. 1901 C, 329 (Placodermata).
 1906 D, 2 (Placodermata).
 1907 B, 233.

Eastman, C. R. 1908 A, 160
 1917 A, 244.
 Filhol, H. 1889 A, 224 ("placodermes").
 Gebhardt, F. A. M. W. 1907 A, 72 ("placoder-
 men").
 Hilzheimer, M. 1915 A, 471.
 Hoffmann, G. 1916 A, 491 ("panzerfische").
 Hussakof, L. 1906 A, 128 (Placodermata).
 Hussakof and Bryant 1919 A, 22 (Placoder-
 mata)
 Moodie, R. L. 1926 A, 76.
 Plate, L. 1926 A, 44 ("placodermen").
 Pompeck, J. F. 1913 A, 1110
 1926 A, 71 ("placodermen")
 Regan, C. T. 1904 A, 330, 331, 340.
 Schlosser, M. 1917 A, 146 ("placodermen").
 Steinmann, G. 1907 A, 416
 Stromer, E. 1920 A, 9.
 Traquair, R. H. 1880 A, 152, 158 (Placoder-
 mata).
 Weidenreich, F. 1922 A, 44 ("placodermen").
 Woodward, H. 1878 A, 19, 22.
 Zittel and Koken 1911 A, 26.
 Zittel and Schlosser 1923 A, 26.

Order ANTIARCHA Cope.

Hay, O. P. 1902 A, 342.
 Abel, O. 1920 A, 323 (Antiarchi).
 Andreae, A. 1901 B, 507.
 Arldt, T. 1907 D, 282.
 1912 A, 648 (Antiarchi).
 1923 A, 482 ("antiarchen").
 Barrell, J. 1915 B, 402.
 Bridge, T. W. 1904 A, 532 (Antiarchi).
 Cope, E. D. 1885 BB, 63.
 1891 N, 9.

Dean, B. 1900 A, 22, seq.
 1901 C, 112.
 Eastman, C. R. 1907 B, 23, 22, 225.
 1908 A, 56, 60, 74 (Antiarchi).
 Gaskell, W. H. 1908 A, 29, 236, 343 (Antiarchi).
 Goodrich, E. S. 1909 A, 206 (Pterichthyomorphi).
 Gregory, W. K. 1915 D, 318.
 Huene, F. 1926 A, 260.
 Hussakof, L. 1906 A, 129.
 Hussakof and Bryant 1919 A, 22 (Antiarchi).

Jaekel, O. 1902 A, 103 (*Ternnauchema*).

1903 B, 12 ("placodermen").

1903 D, 41 ("placodermen").

1903 F, 37 ("placodermen").

1906 A, 28 ("placodermen").

1906 B, 76 ("placodermen").

1906 C, 157 ("placodermen").

1906 D, 180 ("placodermen").

1907 A, 170 ("placodermen").

1909 A, 198 ("placodermen").

1911 A, 37, 44 (*Placodermata*).

1911 A, 38 (*Asterolepida*), 47 (*Coccoster*).

1919 A, 73 ("placodermen").

1921 A, 233 ("placodermen").

1925 B, 170 ("placodermen").

1926 A, 172 ("placodermen").

1926 D, 71.

1927 B, 332 ("placodermen").

Jordan, D. S. 1905 A, I, 576, 581; II, 557, 586.

1907 B, 759.

1923 A, 86.

Kemna, A. 1903 A, 348 (*Antiarchi*).

1904 A, 24 ("placodermes").

Kiaer, J. 1924 A, 107, 114, 123 (*Antiarchi*); 117 (*Pterichthyomorphi*).

Kingsley, J. S. 1885 A, 92.

Koken, E. 1893 B, 143, 172 ("placodermen").

Leunis and Ludwig 1883 A, 777 (*Placodermata*).

Lutken, C. 1868 C.

1871 A, 294 ("placodermes").

Osborn, H. F. 1917 B, 165, 167, fig (*Antiarchi*).

Osborn, R. C. 1907 B, 173.

Parker and Haswell 1897 A, 244.

Patten, W. 1912 A, 367.

Pompeckj, J. F. 1913 A, 1110, 1115.

Regan, C. T. 1923 B, 458 (*Asterolepida*).

Rosén, N. 1916 A, 11 (*Antiarchi*).

Schlosser, M. 1917 A, 133 (*Antiarchi*).

Schmalhausen, J. J. 1913 A, 76.

Simpson, G. G. 1925 D, 289 (*Antiarchi*).

1926 J, 173.

Stensio, E. A. 1925 B, 189.

Stromer, E. 1920 A, 12, 16 (*Antiarchi*).

Traquair, R. H. 1900 C, 504 (*Asterolepida*).

Woodward, A. S. 1898 B, 12.

1920 D, 33 (*Antiarchi*).

Zittel and Koken 1911 A, 35.

Zittel and Schlosser 1923 A, 36 (*Antiarchi*).

Zittel and Woodward 1902 A, 56.

ASTROLEPIDÆ Traquair.

Traquair, R. H. 1888 C, 485.

Unless otherwise indicated the authors, as quoted, write the name of this family *Asterolepidæ*.

Hay, O. P. 1902 A, 342.

Abel, O. 1907 D, (167).

1908 D, (211), ("asterolepiden").

1912 F, 596 ("asterolepiden").

1919 A, 88.

Barrell, J. 1915 B, 393.

Bridge, T. W. 1904 A, 534.

Dean, B. 1902 C, 703 ("pterichthyds").

1912 A, 226 ("pterichthyds").

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1902 C, 507 ("Pterichthyds").

1904 C, 141, 143.

1906 D, 3.

1907 B, 23, 33, 225.

1908 A, 56, 75 ("asterolepids").

Gebhardt, F. A. M. W. 1907 A, 73 ("asterolepiden").

Goodrich, E. S. 1909 A, 209.

Hoernes, R. 1886 A, 546 (*Pterichthyds*).

Hoffmann, G. 1911 A, 285 ("asterolepiden").

Hussakof, L. 1906 A, 131.

Jaekel, O. 1902 A, 106, 113 ("asterolepiden").

1903 D, 41, 58 ("asterolepiden").

Jaekel, O. 1903 F, 39 ("pterichthyden").

1906 D, 187 ("asterolepiden").

1911 A, 37 ("asterolepiden", *Pterichthy*).

1919 A, 101 ("asterolepiden").

1921 A, 226 ("asterolepiden").

1925 B, 166 ("asterolepiden").

1926 A, 168 ("asterolepiden").

Jordan, D. S. 1905 A, I, 576; II, 557.

1907 B, 759.

1923 A, 86.

Kemna, A. 1904 A, 52 ("astérolépides").

Kiaer, J. 1924 A, 116 (*Asterolepididæ*); 117 (*Pterichthyds*).

Lankester, E. R. 1897 A, 45.

Osborn, H. F. 1902 H, 749 ("asterolepids").

Patten, W. 1902 A, 392 (*Pterichthyds*).

1902 B, 180 (*Pterichthyds*).

1903 D, 29.

Pompeckj, J. F. 1913 A, 1115.

Regan, C. T. 1904 A, 340.

Schlosser, M. 1917 A, 133 ("asterolepiden").

Steinmann, G. 1907 A, 418.

Weidenreich, F. 1922 A, 44 (*Asterolepis*).

Zittel and Koken 1911 A, 37.

Zittel and Schlosser 1923 A, 36.

Zittel and Woodward 1902 A, 56.

ASTROLEPIS Eichwald. Type *A. ornata* Eichwald.

Unless otherwise indicated, the authors, as quoted, write this name *Asterolepis*.

Hay, O. P. 1902 A, 342.

Abel, O. 1912 F, 598.

1919 A, 90, fig. 51.

1927 A, (31).

Ardt, T. 1923 A, 482.

Barkas, W. J. 1874 D, 549.

Bronn, H. G. 1878 A, 121.

Chapman, F. 1916 A, 211.

Darton, N. H. 1906 A, 563.

Delafontaine, M. 1877 A, 267.

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1903 E, 574.

1907 B, 39, 225.

1908 A, 82.

Eichwald, E. 1840 B, 425.

Frech, F. 1897 A, 82.

Gaskell, W. H. 1895 A, 36 (*Asterolepis*).

1908 A, 326, 342.

Gebhardt, F. A. M. W. 1907 A, 81.

Goodrich, E. S. 1909 A, 506.

- Heilprin, A. 1887 A, 302.
 Hoffmann, G. 1909 A, 491, figs. 1-3.
 1911 A, 285
 Hussakof, L. 1906 A, 134.
 1908 C, 311
 Jaekel, O. 1902 A, 110.
 1903 D, 45, figs. 3-5, 7, 8.
 1903 E, 86
 1903 F, 35
 1919 A, 102, fig 15
 1926 A, 164, 166
 Jordan, D. S. 1919 B, 206 (Astrolepis).
 Miller, J. 1851 A, 92
 1869 A, 384
 Pompeckj, J. F. 1913 A, 1115
 Traquair, R. H. 1880 A, 155
 1904 A, 91
 Woodward, A. S. 1900 H, 1.
 1915 B, lxiv

PTERICHTHYODES Bleeker. Type *Pterichthys mulleri* Agassiz.

Unless otherwise indicated the authors, as cited, use the name *Pterichthys*

Bleeker, P. 1839, Tentamen, 11 (Pterichthyodes)
 Hay, O. P. 1902 A, 343 (Pterichthyodes)

- Abel, O. 1907 D (160)
 1908 E, 413, fig 5
 1909 D, (226)
 1912 B, 76, fig 26
 1912 F, 445, 598
 1919 A, 88, figs 49-50
 1920 A, 323, fig 513
 Agassiz, L. 1844 C, 269
 Allis, E. P. 1905 A, 493
 Arldt, T. 1923 A, 482
 Barkas, W. J. 1874 D, 552
 Baker, H. 1927 A, 36
 Bondage, E. 1892 A, 333, fig 4
 Bridge, T. W. 1904 A, 533
 Bronn, H. G. 1848 B, 1051
 1849 A, 656
 Cunningham, J. T. 1912 A, 250
 Davis, J. W. 1880 C, 67
 Dean, Gudger, Henn. 1923 A, 664
 Deecke, W. 1913 A, 88
 Delafontaine, M. 1877 A, 268
 Eastman, C. R. 1898 E, 183
 1903 E, 574
 1904 C, 142
 1905 A, 40, fig 1
 1906 A, 141
 1906 D, 1
 1907 B, 32, 233
 1908 A, 57, 75, 76, figs. 9-11

- Frech, F. 1897 A, 123
 Gadow, H. 1910 A, 28
 Gaskell, W. H. 1895 A, 36
 1908 A, 533
 Gaudry, A. 1896 A, 19, fig 25.
 Goodrich, E. S. 1909 A, 208, fig 161.
 Gregory, W. K. 1922 A, 3
 Heilprin, A. 1887 A, 149, 301.
 Hoernes, R. 1880 A, 547
 Hoffmann, G. 1909 A, 491.
 1911 A, 287
 Hussakof, L. 1906 A, 131.
 Huxley, T. H. 1858 D, 505, 515.
 1861 D, 449, fig 19

- Zittel and Koken 1911 A, 38
 Zittel and Schlosser 1923 A, 38, figs. 48, 49.
 Zittel and Woodward 1902 A, 57

Astrolepis clarkei Eastman.

- Eastman, C. R. 1907 B, 40, pl. vii, figs 7, 8
 (Astrolepis)
 Eastman, C. R. 1907 B, 13, 225 (Astrolepis).
 1908 A, 83, 275 (Astrolepis).
 Williams and Breger 1916 A, 293, pl. xxii, fig 19 (Astrolepis)
 Lower Devonian (Chapman), Maine

Astrolepis incisa Woodward.

- Woodward, A. S. 1900 H, 6, pl. 1, figs. 11-13
 (Astrolepis).
 Upper Devonian, East Greenland.

- Jaekel, O. 1902 A, 110
 1903 B, 12
 1903 D, 41, 56
 1911 A, 38
 1919 A, 101 (Pterichthys)
 Jordan, D. S. 1903 A, 136
 1905 A, 1, 576, n. 588 (Pterichthys).
 1919 B, 209 (Pterichthys)
 Kemna, A. 1903 A, 343
 1904 A, 61
 Knaer, J. 1924 A, 110
 Koken, E. 1893 B, 143, 174
 Korschakoff, D. N. 1906 A, 298
 Lankester, E. R. 1897 A, 45
 1905 A, 252, figs 183, 184
 Longman, — 1860 A, 263
 Lucas, F. A. 1901 J, 25, fig 5
 Lutken, C. 1868 C
 MacBride, E. W. 1910 A, 18
 Mantell, G. A. 1844 A, 646, fig 135.
 Miller, H. 1851 A, 91
 1857 A, 98, fig 57
 Murchison, R. I. 1841 A, 99
 1854 A, 251, fig 47
 Osborn, H. F. 1905 N, 235
 1916 E, 606, fig 14
 1917 B, 166, 170, fig
 Patten, W. 1902 A, 379, 389
 1903 A, 223
 1903 D
 1912 A, 343
 Perrier, E. 1920 A, 272
 Pompeckj, J. F. 1913 A, 1114, fig 12.
 Regan, C. T. 1904 A, 34, fig 4
 Schuchert, C. 1915 A, 686, fig 408
 Schuchert and Levene 1927 A, 267, fig
 Stromer, E. 1905 D, 315
 Traquair, R. H. 1880 A, 150, 155
 1900 C, 504
 1904 A, 94.
 Woodward, A. S. 1897 C, 379
 1906 C, 269, fig 3.
 1915 B, lxiv
 1920 D, 33
 1922 C, 59, fig 54
 Woodward, H. 1878 A, 14, pl. 1, fig 5.

Zittel and Koken 1911 A, 37.

Zittel and Schlosser 1923 A, 37, figs. 46, 47.

BOTHRIOLEPIS Eichwald.

Hay, O. P. 1902 A, 343.

Abel, O. 1907 D, (166).

1912 F, 561, 568.

Adams, L. A. 1919 A, 122, fig. 3.

Allie, E. P. 1905 A, 493.

Barkas, W. J. 1874 D, 548 (*Stenacanthus*); 549 (*Bothriolepis*).

Bordage, E. 1892 A, 334, fig. 4.

Bronn, H. G. 1848 A, 172.

1849 A, 655.

Clarke, J. M. 1911 A, 128.

Claypole, E. W. 1883 C, 281.

Dean, B. 1908 A, 202.

1912 A, 226.

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1903 E, 574

1906 A, 141.

1907 B, 32, 42.

1908 A, 79, 83.

Eichwald, E. 1840 B, 425 (*Bothriolepis*).

Frech, F. 1897 A, 123.

Gaskell, W. H. 1895 A, 36.

1908 A, 520.

1910 A, 12.

Gebhardt, F. A. M. W. 1907 A, 81.

Goodrich, E. S. 1909 A, 206, 209.

Gregory, W. K. 1915 D, 319.

1917 A, 378, fig. 5.

1922 A, 3.

Heilprin, A. 1887 A, 302.

Hoffmann, G. 1909 A, 492.

1911 A, 285, figs. 24, 25.

Hussakof, L. 1906 A, 131, 143.

Hussakof and Bryant 1919 A, 23.

Huxley, T. H. 1861 D, 436.

Jaekel, O. 1903 D, 48.

1926 A, 164.

Kemna, A. 1904 A, 19.

Kingsley, J. S. 1925 A, 90, fig. 94.

Koken, E. 1893 B, 175.

Lambe, L. M. 1904 C, 16.

Lewis, F. T. 1907 A, 657.

Lull, R. S. 1917 B, 469.

Moodie, R. L. 1915 I, 141, 165, figs. 1, 2.

1920 D, 14.

1923 B, 292.

1926 A, 76, 84.

Osborn, H. F. 1916 E, 603, fig. 10.

1917 B, 165, 167, 170, fig.

Owen, R. 1866 A, 378.

Patten, W. 1903 A, 223.

1903 C, 488.

1903 D.

1904 A, 113, figs. 1-6.

1905 A, 297.

1905 B, 140.

1906 A, 283.

Pompeckj, J. F. 1913 A, 1110, 1115.

Roberts, G. E. 1863 A, 389.

Stensö, E. A. 1921 A, 44.

Traquair, R. H. 1904 A, 107.

1906 A, 119, pls. xxvii-xxxi.

1908 B, 328.

Zittel and Woodward 1902 A, 56.

No American species of this genus has yet been discovered.

Type *B. prisca* Eichwald.

Watson and Day 1916 A, 37.

Wiman, C. 1918 B, 90.

Woodward, A. S. 1897 C, 379.

1900 H, 9.

1913 B, 82, pl. x, fig. 3.

1915 B, lxiv.

1917 G, lxxx.

1920 D, 34.

Zittel and Koken 1912 A, 39.

Zittel and Schlosser 1923 A, 39.

Zittel and Woodward 1902 A, 58.

Bothriolepis canadensis Whiteaves.

Hay, O. P. 1902 A, 343.

Abel, O. 1907 D, (160, 166).

1912 F, 598.

1919 A, 91, fig. 52.

Bridge, T. W. 1904 A, 534.

Clarke, J. M. 1913 A, 113, 2 figs.

Claypole, E. W. 1883 C, 278 (*Pterichthys*).

Cope, E. D. 1885 BB, 63.

1891 N, 9, fig. 2.

Eastman, C. R. 1904 B, 254.

1907 B, 16, 43, text-figs. 10-12.

1908 A, 84, 280, figs. 12-14.

1917 A, 240.

Goodrich, E. S. 1909 A, 206, fig. 180.

Hoffmann, G. 1911 A, 300, text-figs. 16, 23.

1916 A, 491, figs. 1-4.

Hussakof, L. 1906 A, 131, fig. 14.

Hussakof and Bryant 1919 A, 23.

Jaekel, O. 1903 D, 42, 57.

Jordan, D. S. 1908 B, 807.

Kiaer, J. 1915 A, 41, 42.

Lambe, L. M. 1904 C, 14, 16, 34, 40.

1912 A, 4.

Moodie, R. L. 1923 B, 320, pl. lxiv.

1926 A, 67, pl. vi, text-fig. 1.

Patten, W. 1905 B, 140.

1912 A, 483, figs. 247-257.

Rogers, A. F. 1924 A, 546.

Stromer, E. 1912 A, 40, fig. 52.

Traquair, R. H. 1904 A, 112, figs. 57-59.

Whiteaves, J. F. 1907 B, 249, pls. i, ii.

Woodward, A. S. 1900 H, 9.

Upper Devonian (Scaumenac); Quebec.

Bothriolepis coloradensis Eastman.

Eastman, C. R. 1904 B, 255, figs. 1, 4.

Cross, W. 1905 C, 4 ("Bothriolepis" This species?).

1910 A, 5.

Eastman, C. R. 1907 B, 20, 53.

1908 A, 94, 285.

1915 A, 280.

1917 A, 240.

Upper Devonian (Elbert); Colorado.

Bothriolepis hydrophila Agassiz.

Agassiz, L. 1844 A, 5, 21, pl. iv, figs. 4-7 (*Pamphractus hydrophilus*), 21 (*P. andersoni*); 134, pl. xxxi, fig. 6 (*Homothorax flemmingi*).

- Kiaer, J 1915 A, 39, 41, 54, pl vii, figs. 1-6
(*This species?*)
- Miller, H 1848, in Egerton, P G, 1848 A, 312, 314 (*Pterichthys*)
- Pownie, J. 1862 A, 435 (*Pterichthys*).
- Traquair, R H 1888 B, 510
1888 C, 500, pl xviii, figs 4, 5
- Woodward, A S 1891 A, 230, pl. vi, fig 9, text-figs 35.
Upper Devonian (Old Red), Scotland
Upper Devonian?, Ellesmere Land
- Bothriolepis leidyi* Newb.**
- Newberry J S 1889 A, 109, 111, pl xviii, fig 2, pl xx, figs 1-5
- Hay, O P 1902 A 344 (*B nitida* part)
- Clarke and Ruedmann 1903 A, 765 (*This species?*)
- Claypole, E W 1903 A, 321
- Cross, W 1905 C, 4 (*"Bothriolepis"* *This species?*)
- Eastman, C R 1904 B, 257 (*This species?*).
1907 B, 50 (*Syn* of *B. nitida*)
Upper Devonian (Catskill), Pennsylvania.
New York.
- Bothriolepis minor* Newb.**
- Hay, O P 1902 A, 343
- Clarke and Ruedmann 1903 A, 965.
- Claypole, E W. 1903 A, 321
- Eastman, C R 1907 B, 20, 52; fig 13
1908 A, 93, 287, 289
- Hussakof, L 1908 A, 5.
Upper Devonian (Chemung), Pennsylvania (Catskill); New York
- Bothriolepis nitida* (Leidy).**
- Hay, O P. 1902 A, 344.
- Barkas, W J 1874 D, 548 (*Stenacanthus*)
- Claypole, E W 1903 A, 320 (*Stenacanthus niticans*)
- Eastman, C R 1907 B, 22, 50, pl iii, fig 4, pl vii, fig 1.
1908 A, 92, 289.
1915 A, 280
1917 A, 240.
- Hussakof, L 1908 A, 5
- Hussakof and Bryant 1919 A, 23.
Upper Devonian (Chemung, Catskill), Pennsylvania, New York
- Bothriolepis traquairi* Bryant.**
- Bryant, W. L 1924 A, 54, pls. 1, ii
Upper Devonian (Scaumenae), Quebec
- Bothriolepis* sp. indet.**
- Abel, O 1926 B, 217 Upper Devonian, Grand Canyon, Arizona
- Cross, W 1905 A, 3 Devonian (Elbert), Colorado.
- Kiaer, J. 1915 A, 43 (*This genus?*) Upper Devonian, Ellesmere Land
- Schuchert, C 1918 A, 361 Devonian, Arizona

Order COCCOSTEOMORPHI Goodrich.

- Goodrich, E S 1909 A, 258
Unless otherwise indicated, the authors, as cited, apply to this group the name *Arthrodura*
- Hay, O P. 1902 A, 344
- Abel, O 1912 F, 439, 440, 487
1919 A, 92.
1920 A, 323
- Adams, L A 1919 A, 124
- Arlt, T 1907 D, 232
1912 A, 648
1923 A, 482 (*"arthroduren"*)
- Barrell, J 1915 B, 402.
- Berry, E W 1925 A, 358.
- Branson, E B 1918 A, 89.
- Bridge, T W 1904 A, 535, 731
- Bryant, W L 1926 B, 257
- Cope, E D 1891 N, 14
- Dean, B 1900 A, 22 (*Subclass of Arthrognathi*)
1901 C, 110 et seq. (*Subclass of Arthrognathi*)
1907 A, 46 (*"arthrodires"*).
1908 A, 202.
1909 C, 282.
1914 A, 59
- Dean, Gudger, Henn 1923 A, 589, 611, 664, 665.
- Dollo, L 1906 B, 136 (*"arthrodères"*)
1907 B, 97, 106 (*"arthrodères"*).
- Eastman, C R 1900 G, 287.
1901 C, 329 (*"arthrodires"*).
1904 C, 141 (*"arthrodires"*).
1905 A, 46, 138 (*"arthrodires"*).
1906 A, 131, 133 (*"arthrodires"*)
- Eastman, C R 1906 B, 290 (*"arthrodires"*).
1906 D, 1
1907 A, 211 (*"arthrodires"*)
1907 B, 23, 89, 225
1908 A, 69, 157, 158.
1917 A, 244 (*"arthrodires"*).
- Goodrich, E S. 1904 A, 494 (*Arthrodura*)
- Gregory, W. K 1907 D, 447.
1915 D, 318, 342
1920 A, 219
- Henning, E 1920 B, 113
- Howes, G B 1902 A, 525.
- Huene, F. 1926 A, 260.
- Hussakof, L 1906 A, 105.
1908 C, 312
1911 B, 123
- Hyde, J E 1926 A, 501 (*"arthrodires"*)
- Jaekel, O. 1903 D, 57
1911 A, 47 (*Cocosteles*).
1919 A, 75
1925 B, 167.
1927 B, 332, 337
- Jordan, D. S. 1903 A, 136
1905 A, 1, 581, 585, 612; ii, 557.
1907 B, 238, 245, 760.
1923 A, 88.
- Kemna, A 1904 A, 65 (*"arthrodirens"*)
- Keyes, C. A. 1922 A, pl. iii.
- Kiaer, J 1924 A, 123.
1928 A, 130 (*"arthrodires"*).
- Kingsley, J S. 1925 A, 118.
- Meek, A. 1916 A, 35
- Moodie, R L 1915 I, 138 (*"arthrodires"*)

- Moodie, R. L. 1926 A, 73, 80
 Osborn, H. F. 1916 E, 601 ("arthrodires").
 1917 B, 166, 167, 292, fig.
 Osburn, R. C. 1907 B, 173
 Patten, W. 1912 A, 386, 388.
 Pompeckj, J. F. 1913 A, 1116, 1119.
 Regan, C. T. 1923 B, 458.
 Reynolds, S. H. 1897 A, 70.
 Sauvage, H. E. 1899 B, 86 (Arthropodura)
 Schlosser, M. 1917 A, 132, 133, 146.
 Schuchert, C. 1915 A, 688.
 Sewertzoff, A. N. 1923 B
 Simpson, G. G. 1926 J, 173
 Stensio, E. A. 1925 A, 176, 182, 223 (arthrodires")
 Stensio, E. A. 1925 B, 164, 187 ("arthrodires").
 1927 A, 32.
 Stromer, E. 1912 A, 35, 48
 1920 A, 15, 16.
 Thevenin, A. 1910 A, 35 ("arthrodires")
 Williston, S. W. 1912 E, 253.
 Woodward, A. S. 1898 B, 64.
 1915 B lxx
 1920 D, 34
 1922 B, 30
 1922 C, 79
 Zittel and Koken 1911 A, 78
 Zittel and Schlosser 1923 A, 39
 Zittel and Woodward 1902 A, 58.

Suborder MACROPETALICHTHYIFORMES, new name.

- Dean, B. 1900 A, 22 (Anarthrodura)
 1901 C, 110, seq. (Anarthrodura)
 1909 C, 281 (Anarthrodura)
 Eastman, C. R. 1900 G, 287 (Anarthrodura)
 Goodrich, E. S. 1909 A, 262 (Anarthrodura).
 Gregory, W. K. 1907 D, 447 (Anarthrodura)
 Hussakof, L. 1906 A, 135 (Anarthrodura)
 Jaekel, O. 1903 D, 58 (Anarthrodura)
 Jordan, D. S. 1905 A, 1, 534, n. 557 (Anarthrodura)
 Pompeckj, J. F. 1913 A, 1119 (Anarthrodura)

MACROPETALICHTHYIDÆ Eastman.

- Hav, O. P. 1902 A, 349
 Dean, B. 1901 C, 120 (Subel. Anarthrodura, order Stegothalami)
 Eastman, C. R. 1907 B, 23, 99
 1908 A, 167
 Gebhardt, F. A. M. W. 1907 A, 73 ('macropetalichthyiden')
 Goodrich, E. S. 1909 A, 262
 Gregory, W. K. 1907 D, 447.
 Hennig, E. 1907 B, 591
 Jaekel, O. 1902 A, 112 ('macropetalichthyiden').
 1903 D, 58 ('macropetalichthyiden')
 1903 F, 39 ('macropetalichthyiden')
 1926 A, 181 ('macropetalichthyiden')
 Jordan, D. S. 1907 B, 760
 1923 A, 88
 Stensio, E. A. 1925 B, 92, 164 ('macropetalichthyids')

MACROPETALICHTHYS Norw. and Owen

- Hav, O. P. 1902 A, 349.
 Allis, E. P. 1905 A, 491
 Auldt, T. 1923 A, 482, 493
 Barkas, W. J. 1874 D, 551
 Bryant, W. L. 1926 B, 256
 Dames, W. 1899 G, 556
 Dean, B. 1900 A, 26
 1901 B, 108
 1901 C, 114, et seq.
 1907 A, 48.
 Dean, Guder, Henn. 19.3 A, 664
 Drecke, W. 1913 A, 89
 Eastman, C. R. 1898 E, 184
 1900 G, 288
 1901 C, 329.
 1906 A, 141.
 1906 D, 12
 1907 B, 100, 193, 231
 1908 A, 168.
 Gregory, W. K. 1915 D, 320
 Heilprin, A. 1887 A, 149
 Hennig, E. 1907 B, 584
 Hussakof, L. 1906 A, 135
 1908 C, 312.
 Jaekel, O. 1902 A, 113.
 1911 A, 46, fig. 32.
 1919 A, 75
 1921 A, 233
 1926 A, 161.
 1927 B, 336.
 Jordan, D. S. 1923 A, 88.

Type *M. rhapsidolabis* Norw. and Owen

- Kner, J. 1915 A, 15
 Kayser, E. 1880 B, 678 (Placothorax a syn.)
 Newberry, J. S. 1873 G, 145
 Pompeckj, J. F. 1913 A, 1118
 Stensio, E. A. 1925 B, *passim*
 Trouessart, E. 1898 B, 7
 Woodward, A. S. 1890 F, 146
 1917 G lxxx
 Zittel and Koken 1911 A, 83
 Zittel and Schlosser 1923 A, 43
 Zittel and Woodward 1902 A, 58

Macropetalichthys rhapsidolabis Norw. and Owen.

- Hav, O. P. 1902 A, 349 (*M. rhapsidolabis*, *M. sullivanti*).
 Bronn, H. G. 1848 C (*Pterichthys norwoodi*, *P. norwoodanus*)
 Claypole, E. W. 1896 B, 354 (*M. sullivanti*)
 1903 A, 312, 319 (*M. rhapsidolabis*, *M. sullivanti*).
 Dames, W. 1899 G, 556, fig. (*M. sullivanti*)
 Eastman, C. R. 1907 B, 14, 103, 231, pl. ix, fig. 5, pl. xi; text-figs. 19-21.
 1908 A, 168, 278, fig. 24
 Hussakof, L. 1908 A, 16
 Hussakof and Bryant 1919 A, 10, 25.
 Jaekel, O. 1926 A, 161-184, figs. 1-3.
 Kner, J. 1915 A, 11, 13, fig. 2 (*M. rhapsidolabis*).

- Lambe, L. M. 1904 C, 16, 34, 42 (M. *sullivanti*)
(This fish).
Newberry, J. S. 1870 E, 17 (M. *sullivanti*).
1874 H, 192 (M. *sullivanti*).
Orton, E. 1878 A, 625, 628 (M. *sullivanti*)
Stauffer, C. R. 1909 A, 169
Stensio, E. A. 1925 B, 91-198, pls. xix-xxviii,
xxx, text-figs. 1-13, 15
Trouessart, E. 1898 B, 7 (M. *rhapheolabis*,
M. *sullivanti*).
Whiteaves, J. F. 1877 A, 319 (M. *sullivanti*)
Middle Devonian (Columbus and Delaware);
Ohio, Indiana. (Onondaga), New York. De-
vonian, Ontario and James Bay, Canada.

Macropetalichthys schei Kiaer.

- Kiaer, J. 1915 A, 9, pl. 1, figs. 1-6; text-figs.
1, 2
Upper Devonian?, Ellesmere Land.

ASTEROSTEIDÆ A. S. Woodward.

- Hay, O. P. 1902 A, 349
Dean, B. 1901 C, 121.
Gregory, W. K. 1907 D, 447.
Jordan, D. S. 1907 B, 760
1923 A, 88.
Zittel and Koken 1911 A, 84.
Zittel and Schlosser 1923 A, 45

ASTEROSTEUS Newb. Type *A. stenocephalus* Newb.

- Hay, O. P. 1902 A, 349
Ardt, T. 1923 A, 493
Dean Gudger, Henn. 1923 A, 664
Eastman, C. R. 1907 B, 112, 193, 225
Zittel and Woodward 1902 A, 58
Eastman C. R. 1907 B, 14, 113
1908 A, 278.
Hussakof, L. 1908 A, 5
Newberry, J. S. 1874 H, 192.
Orton, E. 1878 A, 626
Stauffer, C. R. 1909 A, 169
Zittel and Schlosser 1923 A, 45
Middle Devonian (Columbus and Delaware),
Ohio. (Onondaga?), New York

Asterosteus stenocephalus Newb.

- Hay, O. P. 1902 A, 349
Claypole, E. W. 1903 A, 319.

Suborder COCCOSTEIFORMES, new name.

- Dean, B. 1901 C, 120, 122 (Arthrothoraci)
Goodrich, E. S. 1909 A, 261 (Arthrothoraci)
Gregory, W. K. 1907 D, 447 (Arthrothoraci)
Hussakof, L. 1906 A (Arthrothoraci)
Jaekel, O. 1903 D, 58.
1911 A, 47 (Cocosteir)
Jordan, D. S. 1905 A, 1, 538; 11, 557 (Arthro-
thoraci)
1907 B, 760 (Arthrothoraci)

PHYLLOLEPIDÆ A. S. Woodward.

- Hay, O. P. 1902 A, 349
Jordan, D. S. 1923 A, 89
Zittel and Koken 1911 A, 84
A family of doubtful standing

GLYPTASPIIS Newb. Type *G. verrucosus* Newb.

- Hay, O. P. 1902 A, 349
Eastman, C. R. 1907 B, 147
1908 A, 181
Hussakof, L. 1906 A, 148.
Hussakof and Bryant 1919 A, 92.
Swartz, C. K. 1913 A, 700
A genus of uncertain relationships.
Glyptaspis verrucosa Newb.
Hay, O. P. 1902 A, 349.
Claypole, E. W. 1896 B, 351 ("Glyptaspis")
1903 A, 320
Eastman, C. R. 1907 B, 19, 147, 230.
1908 A, 285
Hussakof, L. 1908 A, 15
Hussakof and Bryant 1919 A, 103.
Upper Devonian (Cleveland); Ohio.

Glyptaspis eastmani Swartz.

- Swartz, C. K. 1913 A, 700, pl. lxxiii, figs. 1-3
Hussakof and Eastman 1919 A, 104 (Syn. ? of
Holonema rugosum)
Upper Devonian (Jennings); Maryland.

Glyptaspis sp. indet.

- Branson, E. B. 1922 A, 42, 44, 128, pl. xxxi,
fig. 3 Upper Devonian (Snyder Creek);
Missouri.

PHYLLOLEPIS Agassiz. Type *P. concentrica* Agassiz.

- Hay, O. P. 1902 A, 349.
Barkas, W. J. 1874 D, 552
Bryant, W. L. 1926 B, 270.
Eastman, C. R. 1907 B, 158.
1908 A, 207.
Hussakof and Bryant 1919 A, 21.
Stensio, E. A. 1927 A, 329, fig. 91.
Woodward, A. S. 1890 F, 147.
1920 D, 31, fig. 3
1921 A, 179, fig. 20
Zittel and Schlosser 1923 A, 31, fig. 37.
A genus of uncertain position. A. S. Wood-
ward (1921 A, 179) refers it to the *Heteros-*
traci?, Zittel and Schlosser to the *Drepanas-*
pidae.
Phyllolepis delicatula Newb.
Hay, O. P. 1902 A, 349.
Claypole, E. W. 1903 A, 319
Eastman, C. R. 1907 B, 21, 157.

Eastman, C. R. 1908 A, 207, 288.
Hussakof, L. 1908 A, 24.
Upper Devonian (Chemung); Pennsylvania.

HOLONEMA Newb. Type *H. rugosum* (Claypole).

Hay, O. P. 1902 A, 350.
Dean, Gudger, Henn 1923 A, 664.
Eastman, C. R. 1908 A, 181, 206.
1908 B, 156.
Traquair, R. H. 1908 B, 324.
Zittel and Koken 1911 A, 84.
Zittel and Schlosser 1923 A, 31.
A genus of uncertain family position.
Holonema abbreviatum (Eastman).
Eastman, C. R. 1907 B, 147, 229, pl. xii (Glyptaspis).
Eastman, C. R. 1908 A, 282 (Glyptaspis).
Hussakof, L. 1908 A, 15 (Glyptaspis).
Hussakof and Bryant 1919 A, 13, 17, 18, 102, pl. xxxi.
Upper Devonian (Genesee, Portage); New York (Genesee); Kentucky.
Holonema horridum Cope.
Hay, O. P. 1902 A, 350.
Eastman, C. R. 1907 B, 21, 156.

Phyllolepis elegans Hussakof and Bryant.

Hussakof and Bryant 1919 A, 21, pl. xxxii, fig. 2.
Upper Devonian (Portage); New York.

Eastman, C. R. 1908 A, 206, 288.
Hussakof, L. 1908 A, 23.
Upper Devonian (Chemung); Pennsylvania.

Holonema rugosum (Claypole).

Hay, O. P. 1902 A, 350.
Claypole, E. W. 1903 A, 321.
Eastman, C. R. 1907 B, 21, 156.
1908 A, 206, 288, 289.
Hussakof, L. 1908 A, 23.
Hussakof and Bryant 1919 A, 104, pl. xxxii, fig. 1.
Merrill, G. P. 1907 A, 11 (H. rugosa).
Traquair, R. H. 1908 B, 324, fig. 3.
Upper Devonian (Chemung), Pennsylvania,
New York (Catskill); New York: Middle
Devonian; Wisconsin.
Holonema sp. indet.
Hussakof and Bryant 1919 A, 104. Middle Devonian; Wisconsin.

ACANTHASPIDÆ Woodward.

Woodward, A. S. 1891 F, 3.

Jaekel, O. 1925 B, 168 ("acanthaspiden").

ACANTHASPIS Newb. Type *A. armatus* Newb.

Hay, O. P. 1902 A, 332.
Claypole, E. W. 1903 A, 313.
Eastman, C. R. 1904 C, 141.
1906 D, 17.
1907 B, 117, 193, 225.
1908 A, 144.
Gebhardt, F. A. M. W. 1907 A, 80.
Goodrich, E. S. 1909 A, 261, fig. 231.
Hussakof, L. 1906 A, 132, fig. 16.
Hussakof and Bryant 1919 A, 98.
Jaekel, O. 1903 D, 54.
1907 A, 175.
1926 A, 182.
Kemna, A. 1903 A, 346.
Osborn, H. F. 1917 B, 167.
Pompeckj, J. F. 1913 A, 1119.
Regan, C. T. 1904 A, 342.
Stromer, E. 1905 D, 315.
Woodward, A. S. 1891 F, 3, pls. i, ii.
A genus of uncertain systematic position.
Acanthaspis armata Newb.
Hay, O. P. 1902 A, 332.
Claypole, E. W. 1903 A, 321.

Eastman, C. R. 1907 B, 14, 117, 198, pl. ii, fig. 2.
1908 A, 145, 277, pl. i, fig. 14.
Hussakof, L. 1908 A, 22.
Hussakof and Bryant 1919 A, 10, 17, 18, 99, text-figs 33-35.
Jaekel, O. 1907 A, 175 fig. 4.
Newberry, J. S. 1874 H, 192.
Orton, E. 1878 A, 626.
Stauffer, C. R. 1909 A, 169.
Weiler, S. 1902 A, 427.
Woodward, A. S. 1891 F, 3.
Middle Devonian (Onondaga); New York:
(Columbus and Delaware); Ohio.

Acanthaspis sp. indet.

Hussakof and Bryant 1919 A, 13, 100, pl. xxviii, fig. 4. Upper Devonian (Genesee); New York: 19, 101, text-fig 36; Upper Devonian (Portage); New York.

PTYCTODONTIDÆ Woodward.

Hay, O. P. 1902 A, 322.
Abel, O. 1912 F, 439, 487.
1919 A, 103.
Arlt, T. 1923 A, 490 ("ptyctodontiden").
Bridge, T. W. 1904 A, 468.
Dean, B. 1906 B, 136 ("ptyctodontids").
Dollo, L. 1906 B, 135 ("ptyctodontes").

Dollo, L. 1907 B, 97 ("ptyctodontes")
Eastman, C. R. 1904 E, 295.
1907 B, 23, 67, 193.
1908 A, 120, 149.
1915 B, 440 ("ptyctodonts").
1917 A, 242.
Goodrich, E. S. 1909 A, 179.

- Gregory, W. K. 1907 D, 447.
 Hay, O. P. 1901 B, 68.
 Jaekel, O. 1903 G, 391.
 1906 D, 180 ("rhynchodonten").
 1927 B, 337 ("ptyctodonten").
 Jordan, D. S. 1905 A, 1, 506.
 1907 B, 759.
 1923 A, 105.
 Petronevics, B. 1919 A, 414 ("ptyctodontes").
 Pompeckj, J. F. 1913 A, 1119, 1131.
 Sauvage, H. E. 1899 A, 6 ("ptyctodontidés").

- Schlosser, M. 1917 A, 133, 147 ("ptyctodontiden").
 Stensio, E. A. 1925 B, 164, 181 ("ptyctodontids").
 Stromer, E. 1905 H, 216.
 1912 A, 25.
 Teller, E. E. 1906 A, 164.
 Zittel and Koken 1911 A, 83.
 Zittel and Schlosser 1923 A, 44.
 Zittel and Woodward 1902 A, 45.

PTYCTODUS Pander. Type *P. obliquus* Pander.

- Hay, O. P. 1902 A, 322.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, 150, figs. 116, 126.
 1912 A, 226.
 Dollo, L. 1907 B, 104.
 Eastman, C. R. 1904 E, 295.
 1907 B, 70, 193, 233.
 1908 A, 119, 120, 133.
 1917 A, 242.
 Hay, O. P. 1901 B, 68.
 Huene, F. 1900 A, 65.
 Hussakof and Bryant 1919 A, 107, 108.
 Jaekel, O. 1901 A, 560.
 1903 G, 391.
 1906 D, 182.
 Jordan, D. S. 1923 A, 105.
 Lambe, L. M. 1904 C, 16.
 Lenche, M. 1925 B, 86.
 Sauvage, H. E. 1899 A, 7.
 Teller, E. 1906 A, 162.
 Weller, S. 1902 A, 427.
 Zittel and Koken 1911 A, 83.
 Zittel and Woodward 1902 A, 45.

Ptyctodus calceolus Newb. and Worth.

- Hay, O. P. 1902 A, 322.
 Branson, E. B. 1914 A, 64, pl. m, figs. 3, 4.
 1918 A, pl. iv, fig. 16.
 1922 A, 6, 22, 44, 45, 126, pl. xxxi, figs. 1, 2.
 Calvin, S. 1897 B, 18.
 Cleland, H. F. 1911 A, 150, pl. xlviii, figs. 1-17.
 Dean, B. 1906 B, fig. 116 (fide Branson).
 Eastman, C. R. 1904 D, 298.
 1907 B, 15, 16, 17, 20, 71.
 1908 A, 48, 49, 128, 133, 277, 281, 286, pl. v, figs. 1-17.
 Hussakof and Bryant 1919 A, 15, 17, 108, pl. xxxiv, pl. xxxvi, figs. 1, 2, 10, pl. xxxvii, fig. 9.
 Lambe, L. M. 1904 C, 34, 42.
 Norton, W. H. 1906 A, 356.
 Shepard, E. M. 1898 A, 79.
 Tyrell, J. B. 1892 A, 209.
 Udden, J. A. 1899 A, 289, 292, 294, 295, 298, 302.
 Upper Devonian (Genesee, Portage); New York, Illinois, Missouri, Kentucky: Middle Devonian (Cedar Valley, Hamilton, Cuboides); Wisconsin, Ontario, Manitoba, Missouri: Mississippian (Kinderhook); Missouri.

Ptyctodus compressus Eastman.

- Hay, O. P. 1902 A, 323.
 Cleland, H. F. 1911 A, 150, pl. xlviii, figs. 18-27.

- Eastman, C. R. 1907 B, 20, 72.
 1908 A, 135, 286, pl. v, figs. 18-27.
 Hussakof and Bryant 1919 A, 12, 15, 17, 110, pl. xxxvi, figs. 3-9, 11, 12; pl. xxxvii, figs. 1-8, 10-13.
 Norton, W. H. 1906 A, 356.
 Upper Devonian (State Quarry); Iowa: (Genesee); New York: Middle Devonian (Cedar Valley); Iowa.

Ptyctodus eastmani Weller.

- Weller, S. 1906 A, 462, pl. 1, figs. 31, 32.
 Eastman, C. R. 1908 A, 137, 149.
 Mississippian (Kinderhook); Missouri.

Ptyctodus ferox Eastman.

- Hay, O. P. 1902 A, 323.
 Branson, E. B. 1914 A, 63, pl. iv, figs. 3, 4.
 1922 A, 42, 44, 127, 131, pl. xxi, fig. 12.
 Cleland, H. F. 1911 A, 151, pl. xlix, figs. 35-40.
 Eastman, C. R. 1907 B, 15, 16, 20, 72.
 1908 A, 128, 135, 277, 286, figs. 20-22.
 Hussakof and Bryant 1919 A, 116.
 Norton, W. H. 1906 A, 356.
 Teller, E. E. 1906 A, 164.
 1911 A, 271.
 Middle Devonian (Craghead), Missouri: (Hamilton); Wisconsin: (Cedar Valley); Iowa: Upper Devonian (State Quarry); Iowa: (Snyder Creek); Missouri.

Ptyctodus howlandi Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 15, 112, pl. xxxviii, text-fig. 38.
 Upper Devonian (Genesee); New York.

Ptyctodus punctatus Eastman.

- Eastman, C. R. 1907 B, 13, 70, fig. 15.
 Eastman, C. R. 1908 A, 133, 277, pl. iii, fig. 6.
 Middle Devonian (Onondaga); New York, Ohio.

Ptyctodus sp. indet.

- Eastman, C. R. 1907 B, 17. Upper Devonian (Portage); New York.
 1908 A, 281. Upper Devonian (Portage); New York.
 Udden, J. A. 1897 A, 95. Devonian (Hamilton); Iowa.

RHYNCHODUS Newb. Type *R. secans* Newb.

- Hay, O. P. 1902 A, 323.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, 150, fig. 118
 1912 A, 226.
 Eastman, C. R. 1904 E, 295.
 1906 D, 24.
 1907 B, 67, 193, 234.
 1908 A, 119, 120, 123.
 1915 B, 440.
 Garman, S. 1904 A, 246.
 Hay, O. P. 1901 B, 68.
 Huene, F. 1900 A, 65.
 Hussakof and Bryant 1919 A, 107, 125
 Jaekel, O. 1901 A, 558-560 (Syn of *Ptyctodus*)
 1903 G, 389, 392 (*Rhynchodus*).
 1906 D, 180.
 Jordan, D. S. 1923 A, 105.
 Lambe, L. M. 1904 C, 16.
 Weller, S. 1902 A, 427.
 Zittel and Koken 1911 A, 83
 Zittel and Schlosser 1923 A, 44.
 Zittel and Woodward 1902 A, 45

***Rhynchodus excavatus* Newb.**

- Hay, O. P. 1902 A, 323 (*R. excavatus*, *R. occidentalis*).
 Cleland, H. F. 1911 A, 148, pl. xlvii, fig. 4
 Eastman, C. R. 1907 B, 15, 16, 68
 1908 A, 124, 277, fig. 18.
 1908 B, 68 (*R. occidentalis* a syn.)
 Hussakof, L. 1908 A, 42.
 Hussakof and Bryant 1919 A, 116
 Norton, W. H. 1906 A, 356 (*R. occidentalis*).
 Teller, E. E. 1911 A, 271.
 Udden, J. A. 1899 A, 302
 Middle Devonian (Hamilton); Wisconsin.
 (Cedar Valley), Iowa.

***Rhynchodus ornatus* Hussakof and Bryant.**

- Hussakof and Bryant 1919 A, 15, 117, pl. xxxix,
 figs. 1, 2
 Upper Devonian (Genesee); New York.

DEINODUS Hussakof and Bryant. Type *D. bennetti* Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 123.
 Jordan, D. S. 1923 A, 105.

***Rhynchodus pertenuis* Eastman.**

- Eastman, C. R. 1904 E, 297, fig. 2
 Eastman, C. R. 1907 B, 20, 69, 234, pl. ii, fig. 5.
 1908 A, 131, 287, fig. 19.
 Upper Devonian (Chemung); New York

***Rhynchodus secans* Newb.**

- Hay, O. P. 1902 A, 323.
 Claypole, E. W. 1896 B, 354.
 1903 A, 321
 Dean, B. 1906 B, 138, fig. 127
 Eastman, C. R. 1907 B, 13, 67
 1908 A, 123, 128, 277
 Hussakof, L. 1908 A, 42
 Newberry, J. S. 1874 H, 192
 Stauffer, C. R. 1909 A, 170
 Orton, E. 1878 A, 626
 Middle Devonian (Columbus and Delaware);
 Ohio.

***Rhynchodus telleri* Hussakof and Bryant.**

- Hussakof and Bryant 1919 A, 15 116, text-fig. 39
 Upper Devonian (Genesee); New York.

***Rhynchodus* sp. indet.**

- Hay, O. P. 1902 A, 323 Devonian, Manitoba
 Clarke and Luther 1904 A, 64 Devonian (Chemung), New York
 Cleland, H. F. 1911 A, 148, pl. xlvii, fig. 6
 Eastman, C. R. 1907 B, 15, 16, 21, 70 Devonian (Chemung); New York: (Cedar Valley); Iowa, Illinois.
 1908 A, 132, 281. Devonian (Chemung, Naples), New York. 277, Devonian ('*Cuboides*'); Manitoba: 281, 287, Devonian (New Albany), Kentucky. 132, Mississippian (Waverly); Kentucky.
 Hussakof, L. 1908 A, 42.
 Lambe, L. M. 1904 C, 34 Devonian (*Cuboides*), Manitoba
 Teller, E. E. 1911 A, 271. Devonian (Hamilton); Wisconsin.
 Tyrrell, J. B. 1892 A, 209 Upper Devonian; Manitoba

PALÆOMYLUS Woodward. Type *Rhynchodus frangens* Newb.

- Hay, O. P. 1902 A, 323.
 Bridge, T. W. 1904 A, 468.
 Dean, B. 1906 B, 134, fig. 117.
 Eastman, C. R. 1904 E, 295
 1906 D, 24.
 1907 B, 153, 193, 232.
 1908 A, 119, 120.
 Hay, O. P. 1901 B, 68.

- Hussakof and Bryant 1919 A, 107.
 Jaekel, O. 1903 G, 391.
 Heller, E. E. 1906 A, 164, 167.
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1898 B, 55.
 Zittel and Koken 1911 A, 84.
 Zittel and Schlosser 1923 A, 44
 Zittel and Woodward 1902 A, 45.

Palæomylus crassus (Newb.).

- Hay, O. P. 1902 A, 323.
 Claypole, E. W. 1896 B, 354 (Rhynchodus).
 1903 A, 321 (Rhynchodus)
 Dean, B. 1906 B, 139, fig. 128.
 Eastman, C. R. 1907 B, 13.
 1908 A, 128, 277
 Hussakof, L. 1908 A, 41.
 Hussakof and Bryant 1919 A, 121, text-fig. 42
 Newberry, J. S. 1874 H, 192 (Rhynchodus)
 Orton, E. 1878 A, 626 (Rhynchodus)
 Stauffer, C. R. 1909 A, 170
 Middle Devonian (Columbus and Delaware),
 Ohio

Palæomylus frangens (Newb.).

- Hay, O. P. 1902 A, 323
 Claypole, E. W. 1896 B, 354 (Rhynchodus).
 1903 A, 321 (Rhynchodus)
 Eastman, C. R. 1907 B, 13
 1908 A, 277
 Hussakof, L. 1908 A, 41.
 Hussakof and Bryant 1919 A, 121, text-fig. 42
 Newberry, J. S. 1874 H, 192 (Rhynchodus
 pangeus)
 Orton, E. 1878 A, 626 (Rhynchodus)

Stauffer, C. R. 1909 A, 170.

Middle Devonian (Columbus and Delaware);
 Ohio.

Palæomylus greeni (Newb.).

- Hay, O. P. 1902 A, 323
 Cleland, H. F. 1911 A, 151, pl. I.
 Dean, B. 1906 B, 139, fig. 128
 Eastman, C. R. 1907 B, 15, 153
 1908 A, 128, 277
 Hussakof, L. 1908 A, 42
 Hussakof and Bryant 1919 A, 119, text-fig. 40
 Sauvage, H. E. 1899 A, 5
 Teller, E. E. 1906 A, 167, pl. iv.
 1911 A, 270

Middle Devonian (Hamilton), Wisconsin

Palæomylus lunaformis Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 15, 119, pl. xl,
 figs. 4-6, text-figs. 41, 42
 Upper Devonian (Genesee), New York

Palæomylus sp. indet.

- Hussakof and Bryant 1919 A, 15, 122, pl. xli
 Upper Devonian (Genesee), New York

COCCOSTEIDÆ Traquair.

- Traquair, R. H. 1890 A, 20
 Hay, O. P. 1902 A, 344
 Abel, O. 1908 E, 422 (Coccosteiden")
 1912 F, 440
 1919 A, 99
 Bridge, T. W. 1904 A, 536
 Eastman, C. R. 1901 C, 329 (Coccosteans")
 1904 C, 143
 1906 D, 3.
 1907 A, 226
 1907 B, 23, 113
 1908 A, 160, 184
 1917 A, 237
 Goodrich, E. S. 1909 A, 263
 Gregory, W. K. 1907 D, 447.

- Hussakof, L. 1906 A, 139 (Coccosteids")
 Jaekel, O. 1919 A, 75, 81, 87, fig. 3 (Coccosteiden")
 1926 A, 174, 181 (Coccosteiden")
 Jordan, D. S. 1923 A, 88
 Kiaer, J. 1924 A, 116, 117.
 Lutken, C. 1871 A, 294 (Coccostées")
 Marnelli, W. 1925 A, 169.
 Regan, C. T. 1904 A, 340
 Schlosser, M. 1917 A, 133 (Coccosteiden").
 Stemmann, G. 1907 A, 419.
 Stensio, E. A. 1925 B, 164 (Coccosteids")
 Zittel and Koken 1911 A, 80.
 Zittel and Schlosser 1923 A, 41.
 Zittel and Woodward 1902 A, 58

COCCOSTEINÆ Hay.

- Hay, O. P. 1902 A, 344
 Abel, O. 1912 F, 596 (Coccosteiden")
 Dean, B. 1901 C, 120, 122 (Coccosteidæ)
 Gebhardt, F. A. M. W. 1907 A, 73 (Coccosteiden")
 Jaekel, O. 1901 A, 558 (Coccosteiden")
 1902 A, 106 (Coccosteiden").
 1903 D, 41, 58 (Coccosteiden")
 1903 E, 86 (Coccosteiden")
 1903 F, 39 (Coccosteiden").

- Jaekel, O. 1903 G, 390 (Coccosteiden")
 1904 A, 33 (Coccosteiden").
 1906 B, 80 (Coccosteiden")
 1906 D, 183 (Coccosteiden")
 1907 A, 171 (Coccosteiden")
 Jordan, D. S. 1905 A, i, 586, ii, 564 (Coccosteidæ)
 1907 B, 760 (Coccosteidæ)
 Lutken, C. 1868 C (Coccosteiden")

COCCOSTEUS Agassiz. Type *C. decipiens* Agassiz.

- Hay, O. P. 1902 A, 344
 Abel, O. 1907 D, (159).
 1908 E, 410.
 1912 F, 439, 596, fig. 323
 1919 A, 93, 99, figs. 53, 56, 58.
 1920 A, 324, fig. 514.
 1921 A, 160, fig. 24.
 Adams, L. A. 1919 A, 122, fig. 3.
 Allis, E. P. 1898 A, 443.

- Allis, E. P. 1905 A, 492
 Ardt, T. 1923 A, 482.
 Barkas, W. J. 1874 D, 549.
 Bridge, T. W. 1904 A, 536, 736
 Bronn, H. G. 1848 A, 317
 1849 A, 656
 Claypole, E. W. 1896 B, 350 et seq.
 1900 A, 246.
 1903 A, 313, 316.

- Coulon, L. 1903 A, 135.
 Dean, B. 1898 E, 187.
 1900 A, 3, 12, 21, 24.
 1901 A, 87.
 1901 C, 123.
 1904 D, 64.
 1907 A, 48.
 1908 A, 202.
 1909 C, 274, figs. 62-65.
 Dean, Gudger, Henn 1923 A, 664.
 Deccke, W. 1913 A, 88.
 Delafontaine, M. 1877 A, 267.
 Eastman, C. R. 1898 E, 183.
 1900 G, 287.
 1904 C, 143.
 1905 A, 41, fig. 4.
 1906 A, 141.
 1906 D, 1.
 1907 B, 115, 119, 193, *Coccosteus*; 144
 (Protitanichthys, type D. fossatus)
 1908 A, 186, 188 (*Coccosteus*); 201 (Protitanichthys).
 Frassetto, F. 1915 A, fig. 5.
 Frech, F. 1897 A, 123.
 Gaudry, A. 1893 A, 120, fig. 97.
 Gebhardt, F. A. M. W. 1907 A, 85.
 Gobel, C. G. 1855 A, 113.
 Goodrich, E. S. 1904 A, 494
 1909 A, 508, figs.
 Heilprin, A. 1887 A, 149, 301.
 Hennig, E. 1920 B, 113.
 Hoernes, R. 1896 A, 547.
 Hussakof, L. 1906 A, 120, figs. 12, 13, 19.
 1908 C, 311 (Protitanichthys).
 1909 B, 264.
 1912 B, 127
 Huxley, T. H. 1858 D, 505, 515.
 1861 D, 449.
 Jaekel, O. 1903 B, 12.
 1903 D, 52, fig. 6.
 1906 A, 11, fig. 6.
 1906 B, 80, fig. 10.
 1906 D, 185, fig. 7.
 1907 A, 171, fig. 1.
 1908 C, 426, figs. 1, 2.
 1911 A, 47, figs. 33, 34.
 1919 A, 75, 87, 100, figs. 10, 14.
 1927 B, 332.
 Kemna, A. 1904 A, 75.
 Kingsley, J. S. 1925 A, 117, fig. 124.
 Koenen, A. 1876 A, 667.
 1890 B, 198.
 Koken, E. 1893 B, 175.
 Koschkaroff, D. N. 1906 A, 298.
 Lankester, E. R. 1884 D, 292.
 1905 A, 256, fig. 185.
 Mantell, G. A. 1844 A, 647, fig. 135.
 Miller, H. 1851 A, 92.
 Miller, J. 1869 A, 384.
 Moodie, R. L. 1920 D, 14.
 1923 B, 292
 1926 A, 82, 83, pls. vii, ix, text-figs. 1, 5.
 Murchison, R. I. 1841 A, 99.
 1854 A, 252, fig. 48.
 Osborn, H. F. 1902 H, 749.
 1905 N, 235.
 1916 E, 606, fig. 14
 1917 B, 170, fig.
 Owen, R. 1866 A, 196, 247.
 Patten, W. 1912 A, 388.
 Pompeckj, J. F. 1913 A, 1116, fig. 13
 Regan, C. T. 1904 A, 240, figs. 3, 4.
 Schuchert, C. 1915 A, 698, fig. 408.
 Sollas and Sollas 1903 A, 271.
 Smith, B. 1909 B, 594.
 Steinmann, G. 1907 A, 419, fig. 742
 Stensio, E. A. 1925 B, 147, 170, figs. 23, 24a, 25.
 Traquair, R. H. 1890 H, 483.
 1903 A, 733.
 Watson and Day 1916 A, 28
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1915 B, lxx.
 1922 B, 30, fig. 4.
 1922 C, 79, fig. 82.
 Woodward, H. 1878 A, 16, pl. u, fig. 1.
 Zittel and Koken 1911 A, 81, fig. 138.
 Zittel and Schlosser 1923 A, 41, figs. 50-52.
 Zittel and Woodward 1902 A, 59.

***Coccosteus canadensis* Woodward.**
 Hay, O. P. 1902 A, 344.
 Clarke, J. M. 1913 A, 113.
 Eastman, C. R. 1907 B, 17, 115.
 1908 A, 280.
 Hussakof, L. 1912 B, 127, pl. i, text-fig. 1.
 Hussakof and Bryant 1919 A, 26, pl. v, figs. 1-3
 Lambe, L. M. 1904 C, 17, 34, 42
 Traquair, R. H. 1903 A, 733
 Whiteaves, J. F. 1907 B, 251.
 Upper Devonian (Scaumenac); Quebec.

***Coccosteus cuyahogæ* Claypole.**
 Hay, O. P. 1902 A, 344.
 Claypole, E. W. 1903 A, 320
 Eastman, C. R. 1907 B, 18.
 1908 A, 283.
 Woodward, A. S. 1922 B, 35.
 Upper Devonian (Cleveland); Ohio.

***Coccosteus fossatus* (Eastman).**
 Eastman, C. R. 1907 B, 14, 144, 233, pl. x, fig. 2, text-fig. 30 (Protitanichthys, type)
 Eastman, C. R. 1908 A, 201, 278, fig. 30 (Protitanichthys).
 Hussakof, L. 1908 C, 311 (Protitanichthys).
 1909 B, 270, pl. xiv, text-fig. 7.
 Stauffer, C. R. 1909 A, 170 (Protitanichthys)
 Middle Devonian (Delaware); Ohio.

***Coccosteus macromus* Cope.**
 Hay, O. P. 1902 A, 344.
 Eastman, C. R. 1907 B, 21, 116.
 1908 A, 186, 287.
 Hussakof, L. 1908 A, 6.
 Upper Devonian (Chemung); Pennsylvania.

***Coccosteus occidentalis* Newb.**
 Hay, O. P. 1902 A, 344.
 Claypole, E. W. 1896 B, 354.
 1903 A, 320.
 Eastman, C. R. 1907 B, 14, 115, 145, pl. ix, fig. 3.
 1908 A, 186, 278.
 Hussakof, L. 1906 A, 137, fig. 22.
 1908 A, 6.
 1909 B, 272, fig. 8.

Moody, R. L. 1928 A, 66.

Newberry, J. S. 1889 A, 52, pl. xxx, figs 2, 2a.

Orton, E. 1878 A, 625

Stauffer, C. R. 1909 A, 169.

Traquair, R. H. 1903 A, 733.

Middle Devonian (Delaware); Ohio, New York?

Coccosteus parvulus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 19, 29, pl. iv, figs 1-3; pl. lxx, fig. 1.

Upper Devonian (Portage); New York.

Coccosteus sp. indet.

Cross, W. 1905 C, 4. Devonian (Elbert); Colorado.

Cockerell, T. D. A. 1913 A, 246 Ordovician?; Colorado.

Eastman, C. R. 1907 B, 14, 115, pl. 1, fig. 9. Devonian (Onondago); New York.

1908 A, 278.

Hussakof and Bryant 1919 A, 19. Upper Devonian (Portage), New York

LISPOGNATHUS Miller. Type *L. spatulatus* (Newb.).

Muller, S. A. 1892 A, 716

Hay, O. P. 1902 A, 345 (Liognathus; preoccupied).

Dean, B. 1901 C, 120 (Liognathus).

Jordan, D. S. 1920 C, 458.

Lisognathus spatulatus (Newb.).

Hay, O. P. 1902 A, 345 (Liognathus).

Claypole, E. W. 1903 A, 320 (Liognathus).

Eastman, C. R. 1907 B, 14, 145 (Liognathus)

1908 A, 186 (Liognathus); 278 (Coccosteus).

Hussakof, L. 1906 A, 140, fig. 21 (Liognathus, Coccosteus).

1908 A, 15 (Liognathus).

1908 C, 312 (Liognathus).

Orton, E. 1878 A, 626 (Liognathus)

Stauffer, C. R. 1909 A, 169 (Coccosteus)

Middle Devonian (Delaware); Ohio.

ASPIDICHTHYS Newb. Type *A. clavatus* (Newb.).

Hay, O. P. 1902 A, 345.

Arlt, T. 1923 A, 482.

Hussakof and Bryant 1919 A, 92.

Jaekel, O. 1927 B, 334

Jordan, D. S. 1919 B, 371

Pompeckj, J. F. 1913 A, 1119.

Woodward, A. S. 1891 A, 311

Zittel and Schlosser 1923 A, 44.

A genus of uncertain systematic position

Aspidichthys clavatus Newb.

Hay, O. P. 1902 A, 345.

Claypole, E. W. 1896 B, 353.

1903 A, 321.

Eastman, C. R. 1907 B, 19, 156

1908 A, 206, 285

Hussakof, L. 1908 A, 22

1919 A, 92

Newberry, J. S. 1873 G, 157

Woodward, A. S. 1891 A, 311.

Upper Devonian (Huron shale); Ohio: (Portage); New York?

Aspidichthys? notabilis Whiteaves.

Hay, O. P. 1902 A, 345

Eastman, C. R. 1907 B, 16.

1908 A, 279.

Hussakof and Bryant 1919 A, 13, 17, 91, pls. xxv, xxvi

Lambe, L. M. 1904 C, 17, 34, 42

Tyrrell, J. B. 1892 A, 209.

Upper Devonian (Genesee); New York: Middle Devonian (Hamilton), Ontario. Devonian (Cuboides); Manitoba

Aspidichthys? sp. indet.

Eastman, C. R. 1907 B, 15. Devonian (Hamilton); New York.

1908 A, 282. Devonian (New Albany); Kentucky

Kiaer, J. 1915 A, 33, pl. n, figs. 3-4 ("coccosteomorph fish" This genus?) Upper Devonian?, Ellesmere Land.

PHLYCTÆNASPINÆ, new name.

Stensio, E. A. 1925 B, 165 ("phlyctenaspids").

PHLYCTÆNASPIS Traquair. Type *Coccosteus acadicus* Whiteaves.

Hay, O. P. 1902 A, 345.

Arlt, T. 1923 A, 482.

Chapman, F. 1916 A, 212.

Dean, B. 1901 C, 120.

1904 D, 64 (Phlyctænus)

Dean, Guder, Henn 1923 A, 665.

Eastman, C. R. 1906 D, 17.

1907 B, 115, 117.

Gebhardt, F. A. M. W. 1907 A, 86.

Goodrich, E. S. 1909 A, 280.

Hussakof, L. 1906 A, 132, fig. 17.

Jaekel, O. 1903 D, 53, 58.

1907 A, 185.

Jaekel, O. 1919 A, 75.

1926 A, 182.

1927 B, 332

Jordan, D. S. 1903 A, 136.

1920 C, 453.

Pompeckj, J. F. 1913 A, 1118, 1119.

Stensio, E. A. 1925 B, 165.

Whiteaves, J. F. 1907 B, 261.

Woodward, A. S. 1915 B, lxx.

1917 G, lxxx.

Zittel and Schlosser 1923 A, 42.

Zittel and Woodward 1902 A, 59.

Phlyctænaspis acadica (Whiteaves).

- Hay, O. P. 1902 A, 345
 Chapman, F. 1916 A, 212, pl. xxi, fig. 6.
 Eastman, C. R. 1907 B, 13.
 1908 A, 188, 276.
 Hussakof, L. 1906 A, 137.

- Jaekel, O. 1895 C, 162.
 Lambe, L. M. 1904 C, 16, 24, 42
 1912 A, 4
 Stensio E. A. 1925 B, 165, figs. 20, 21
 Whiteaves, J. F. 1907 B, 265 pl. iv, figs. 1-4
 Lower Devonian; New Brunswick

DINICHTHYINÆ Eastman

- Hay, O. P. 1902 A, 345.
 Clappole, E. W. 1893 H, 22 ("palæozoic fishes").
 Dames, W. 1898 E, 527, 529.
 Dean, B. 1901 C, 120, 122 (Dinichthyidæ, Titanichthyidæ).
 1911 B, 302 ("placoderms")
 Eastman, C. R. 1907 A, 228 ("dinichthyids").
 1909 B, 997 ("dinichthyids").
 Goodrich, E. S. 1909 A, 263 (Dinichthyidæ, Titanichthyidæ)
 Gregory, W. K. 1907 D, 447 (Dinichthyidæ; Trachosteidæ).
 Hussakof, L. 1906 A, 140 ('dinichthyids').
 Jaekel, O. 1903 D, 58 ('dinichthyiden')
 1919 A, 76 ('dinichthyiden')
 Jordan, D. S. 1905 A, 1, 587 (Dinichthyidæ, Titanichthyidæ)
 1907 B, 760 (Dinichthyidæ, Titanichthyidæ)
 1923 A, 88 ('Dinichthyidæ, Titanichthyidæ').
 Prosser, C. S. 1913 A, 349, 353 ("fossil-fishes")
 Woodward, A. S. 1904 C, 190 ('dinichthyid fishes')

HUSSAKOFIA Cossmann. Type *Dinichthys minor* Newb.

- Cossmann, M. 1910, Rev. crit. Paléozool., xiv, 74.
 Hussakof, L. 1909 B, 263 (Brachygnathus, preoccupied)
 Zittel and Schlosser 1923 A, 43 (Brachygnathus)
Hussakofia minor (Newb.).
 Hay, O. P. 1902 A, 347 (Dinichthys)
 Clappole, E. W. 1903 A, 320, 322 (Dinichthys).
 Eastman, C. R. 1907 B, 19 (Dinichthys).
 1908 A, 284 (Dinichthys).
 Hussakof, L. 1906 A, 130 fig. 13 (Dinichthys)
 1908 A, 12 (Dinichthys)
 1909 B, 266, figs. 1-3 (Brachygnathus)
 Smith, B. 1909 B, 593 (Dinichthys)
 Upper Devonian (Cleveland shale), Ohio.

DINICHTHYS Newb. Type *D. hertzeni* Newb.

- Hay, O. P. 1902 A, 345.
 Abel, O. 1912 F, 487
 Adams, L. A. 1919 A, 123, pl. xi.
 Allis, E. P. 1905 A, 492.
 Anonymous, 1916 A, 140
 Ardit, T. 1923 A, 482
 Baikas, W. J. 1874 D, 550
 Branson, E. B. 1922 A, 6
 Bridge, T. W. 1904 A, 537.
 Clark, W. 1898 A, 46, figs
 Dames, W. 1898 E, 528
 Clappole, E. W. 1896 B (Dinichthys, Gorgonichthys).
 1903 A, 316 (Gorgonichthys)
 Dean, B. 1893 E, 187.
 1900 A, 26
 1900 B, 10.
 1901 C, 111, 120, 123 (Dinichthys); 120 (Gorgonichthys?).
 1907 A, 47, 48.
 1908 A, 202.
 1909 C, 277, figs. 58-61.
 1923 A, 608
 Dean, Gudge, Henn 1923 A, 677.
 Deecke, W. 1913 A, 89.
 Delafontaine, M. 1877 A, 266
 Dollo, L. 1907 B, 107.
 Eastman, C. R. 1905 A, 42.
 1906 A, 132, 134.
 1906 D, 1.
 1907 A, 211.
 1907 B, 96, 118, 193, 225.
 1908 A, 188.
 1909 C, 262.
 1917 A, 249.
 Gaudry, A. 1896 A, 59.
 Gill, T. 1879 A, 7
 Gregory, W. K. 1914 E, 526
 1915 D, 324
 Heilprin, A. 1887 A, 149, 302.
 Hennig, E. 1920 B, 113
 Huene, F. 1900 A, 64
 Hussakof, L. 1905 A, 27
 1906 A, 107, figs. 1, 2, 8, 9
 1909 B, 264.
 1911 B, 126
 Jaekel, O. 1902 A, 112
 1907 A, 181
 1919 A, 75 fig. 6
 1927 B, 332.
 Kasper, E. 1880 A, 819
 Kenna, A. 1903 A, 353.
 1904 A, 77 (Dinichthys, Gorgonichthys)
 Kingsley, J. S. 1925 A, 117.
 Lankester, E. R. 1905 A, 257, fig. 185
 Moodie, R. L. 1920 C, 48, pl. 1, figs. A, B.
 1926 A, 66, 81, 83, pl. viii, text-figs. 1-4, 6
 Newberry, J. S. 1873 G, 157.
 Norton, W. H. 1906 A, 357.
 Orton, E. 1878 A, 635.
 Osborn, H. F. 1902 H, 749
 1905 N, 235
 1917 B, 175.
 Pompeck, J. F. 1913 A, 1116.
 Rogers, A. F. 1924 A, 548, pl. xxv, fig. 3
 St. John, O. 1902 A, 654.
 Sauvage, H. E. 1899 A, 4.
 1899 B, 86.
 Schlosser, M. 1917 A, 133, 146.
 Sharp, K. D. 1903 A, 263.
 Smith, B. 1909 B, 588.
 Stensio, E. A. 1925 B, 170, fig. 23.

- Teller, E. E. 1906 A, 167.
 Traquair, R. H. 1880 A, 159.
 Weller, S. 1902 A, 427.
 Woodward, A. S. 1890 F, 147
 1915 B, lxx.
 1922 B, 33, 35
 1922 C, 80

- Woodward, H. 1878 A, 16.
 Wright, A. A. 1897 A, 59.
 Zittel and Koken 1911 A, 82
 Zittel and Schlosser 1923 A, 42.
 Zittel and Woodward 1902 A, 59

***Dinichthys armstrongi* Hussakof and Bryant.**

- Hussakof and Bryant* 1919 A, 54, pl. lxx, fig. 3
 ("D. sp." *D. armstrongi*).
 Upper Devonian (Chenung); New York.

***Dinichthys canadensis* Whiteaves.**

- Hay, O. P. 1902 A, 346.
 Clappole, E. W. 1903 A, 320, 322.
 Eastman, C. R. 1907 B, 15
 1908 A, 279
 Hussakof, L. 1906 A, 137
 Kundle, E. M. 1914 B, 255
 Laube, L. M. 1904 C, 17, 34, 42
 Tyrrell, J. B. 1892 A, 209
 Devonian ("Cuboides"), Manitoba

***Dinichthys clarki* (Clappole).**

- Hay, O. P. 1902 A, 346
 Clappole, E. W. 1896 B, 350 et seq. (*Gorgonichthys*)
 1903 A, 320 (*Gorgonichthys*)
 Eastman, C. R. 1900 B, 35
 1907 B, 19
 1908 A, 284
 Gaudry, A. 1896 A, 59 (*Gorgonichthys*)
 Hussakof, L. 1905 B, 412, 414, pl. xv, fig. 2,
 pl. xvii
 1908 A, 7
 Hyde, J. E. 1926 A, 497 (*D. clarki*)
 Upper Devonian (Cleveland), Ohio

***Dinichthys curtus* Newb.**

- Hay, O. P. 1902 A, 346
 Adams, L. A. 1919 A, 122, fig. 4
 Branson, E. B. 1908 C, 368
 Clappole, E. W. 1903 A, 320, 322
 Eastman, C. R. 1907 B, 19, 21, 138, 228
 1908 A, 200, 284, 287.
 Hussakof, L. 1905 B, 409, pl. xv, fig. 1; pl.
 xvi; text-figs. 1, 2.
 1906 A, 110, pl. xii, text-fig. 5
 1908 A, 7.
 Upper Devonian (Cleveland), Ohio (Chenung), Pennsylvania.

***Dinichthys halmodeus* (Clarke).**

- Hay, O. P. 1902 A, 346
 Abel, O. 1919 A, 96, fig. 56
 Clarke and Ruedemann 1903 A, 766
 Eastman, C. R. 1907 B, 15, 126, 228, pl. ii, fig.
 7; pl. x, fig. 1; text-fig. 24.
 1908 A, 191, 278, fig. 27
 1917 A, 249, fig. 4

- Hussakof, L. 1906 A, 137, 140, 146, figs. 22, 24.
 1908 C, 312
 1912 B, 131.

- Smith, B. 1909 B, 589, figs. 1-3.
 1910 A, 658, fig. 2

- Stensio, E. A. 1925 B, 175, fig. 24b.
 Middle Devonian (Marcellus), New York.

***Dinichthys hertzeri* Newb.**

- Hay, O. P. 1902 A, 346.
 Abel, O. 1912 F, 487.
 1919 A, 102, fig. 61.
 Baird, S. F. 1876 A, cc (*D. hertzeri*).
 Clappole, E. W. 1896 B, 353.
 1903 A, 315, 320, 322
 Eastman, C. R. 1902 D, 655 (*D. hertzeri*)
 1907 B, 19, 228 (*D. hertzeri*)
 1908 A, 283 (*D. hertzeri*)
 Hussakof, L. 1905 B, 414
 1906 A, 118, pl. xiii, figs. 1-4; text-figs. 3,
 11, 25
 1908 A, 10
 Hyde, J. E. 1926 A, 497 (*D. hertzeri*).
 Jaekel, O. 1919 A, 80, fig. 6
 Newberry, J. S. 1870 E, 20
 1873 G, 157
 1874 H, 189
 Prosser, C. S. 1913 A, 327 (*D. hertzeri*)
 St. John, O. 1902 A, 655
 Weller, S. 1926 A, 496, fig. (*D. hertzeri*).
 Woodward, H. 1878 A, 16, fig. 14.
 Zittel and Koken 1911 A, 81, figs. 143, 144
 Zittel and Schlosser 1923 A, 43, fig. 55
 Zittel and Woodward 1902 A, 60, fig. 112
 Upper Devonian (Huron), Ohio, Kentucky
 (Cleveland?); Ohio

***Dinichthys insolitus* Hussakof and Bryant.**

- Hussakof and Bryant* 1919 A, 13, 53, pl. xxvii,
 fig. 3
 Upper Devonian (Genesee); New York

***Dinichthys intermedius* Newb.**

- Hay, O. P. 1902 A, 346.
 Abel, O. 1912 F, 487, fig. 370.
 1919 A, 101, fig. 60
 Adams, L. A. 1919 A, 125, figs. 4, 5
 Anonymous 1916 A, 140.
 Branson, E. B. 1908 B, 94
 1908 C, 366
 1909 A, 197.
 Clappole, E. W. 1896 B, 351
 1903 A, 316, 320, 322
 Dames, W. 1898 E, 528, fig. 1
 Eastman, C. R. 1907 B, 19, 228, fig. 23
 1908 A, 195, 284.
 Hussakof, L. 1903 A, 27, pl. v; text-figs. 1, 2.
 1905 B, 411
 1906 A, 118, pl. xiii, fig. 5, text-figs. 4, 6,
 10, 13, 19, 20, 24.
 1908 A, 10
 Hussakof and Bryant 1919 A, 19, 33, figs. 5, 6
 ("This species")
 Jaekel, O. 1919 A, 80, 89, figs. 6, 10
 Jordan, D. S. 1907 B, 245, fig. 183.
 Kemna, A. 1904 A, 68.

- Kingsley, J. S. 1925 A, 117, fig. 123.
 Koken, E. 1893 B, 172.
 Moodie, R. L. 1926 A, 80.
 Osborn, H. F. 1916 E, 604, fig. 12.
 Pompeckj, J. F. 1913 A, 1117, fig. 15.
 Smith, B. 1910 A, 661.
 Stensio, E. A. 1925 B, 174.
 Woodward, A. S. 1922 B, 32, 34, figs. 4, 5.
 1922 C, 80, fig. 83.
 Zittel and Koken 1911 A, 81, figs. 142, 147.
 Zittel and Schlosser 1923 A, 43, fig. 56.
 Upper Devonian (Cleveland); Ohio.

Dinichthys kepleri Claypole.

- Claypole, E. W. 1897 B, 322, pl. xx.
 Eastman, C. R. 1908 A, 284 (Syn. ? of *D. hertzeni*).
 Upper Devonian (Cleveland); Ohio.

Dinichthys lincolni Claypole.

- Hay, O. P. 1902 A, 347.
 Clarke and Ruedemann 1903 A, 766.
 Claypole, E. W. 1903 A, 314, 320, 322.
 Dean, B. 1901 C, 112.
 Eastman, C. R. 1907 B, 15, 129, 228, pl. vii, figs. 4-6.
 1908 A, 193, 278, pl. ii, fig. 20.
 Hussakof, L. 1906 A, 115, 117, 142.
 Jaekel, O. 1919 A, 92, fig. 11.
 Smith, B. 1909 B, 595.
 Middle Devonian (Marcellus); New York.

Dinichthys magnificus Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 13, 17, 36, pls. i, vii-ix; pl. xvii, fig. 3, pl. xxxii, fig. 1; text-figs. 7-9, 11, 12.
 Bryant, W. L. 1916 A, 9 pl.
 Upper Devonian (Genesee, Portage); New York.

Dinichthys missouriensis Branson.

- Branson, E. B. 1914 A, 61, pl. ii, figs. 1, 2, 4.
 Eastman, C. R. 1917 A, 248.
 Upper Devonian; Missouri.

Dinichthys newberryi Clarke.

- Hay, O. P. 1902 A, 347.
 Abel, O. 1919 A, 96, fig. 56.
 Clarke and Luther 1904 A, 59.
 Clarke and Ruedemann 1903 A, 766.
 Claypole, E. W. 1903 A, 320, 322.
 Dames, W. 1898 E, 528, fig. 2 (This species?).
 Eastman, C. R. 1907 B, 17, 133, 228, pl. vi, fig. 2.
 1908 A, 198, 281.
 1917 A, 248.
 Hussakof, L. 1903 A, 35.
 Hussakof and Bryant 1919 A, 13, 17, 45, pls. x, xi; text-figs. 13, 14.
 Merrill, G. P. 1907 A, 10.
 Smith, B. 1909 B, 593 (This species?).
 Upper Devonian (Genesee, Portage?); New York; (New Albany); Kentucky.

Dinichthys praeaxillaris Hay.

- Hay, O. P. 1902 A, 347.
 Claypole, E. W. 1897 B, 323 (*D. clarki*).

- Claypole, E. W. 1903 A, 320, 322 (*D. clarki*).
 Eastman, C. R. 1908 A, 284 ("D. clarki").
 Upper Devonian (Cleveland); Ohio.

Dinichthys precursor Newb.

- Hay, O. P. 1902 A, 347.
 Claypole, E. W. 1896 B, 354 (*D. ? precursor*).
 1903 A, 320, 323 (*D. ? precursor*).
 Eastman, C. R. 1907 B, 14.
 1908 A, 278.
 Hussakof, L. 1903 A, 35.
 1906 A, 137.
 1908 A, 12.
 Stauffer, C. R. 1909 A, 169.
 Middle Devonian (Columbus); Ohio.

Dinichthys prentis-clarki Claypole.

- Hay, O. P. 1902 A, 347.
 Eastman, C. R. 1907 B, 19.
 1908 A, 284 (Syn. ? of *D. gouldi*).
 Hussakof, L. 1906 A, 146.
 Kemna, A. 1904 A, 68.
 Upper Devonian (Cleveland); Ohio.

Dinichthys pustulosus Eastman.

- Hay, O. P. 1902 A, 347.
 Branson, E. B. 1922 A, 22, 127, pl. xxxi, figs. 7, 8.
 Cleland, H. F. 1911 A, 155, pl. xlv, figs. 1, 2, pl. xvi; text-fig. 4.
 Dames, W. 1898 E, 530.
 Dean, B. 1901 C, 122.
 Eastman, C. R. 1902 D, 653, figs. 1, 2.
 1906 A, 140, fig. 3.
 1906 D, 12, fig. A.
 1907 B, 15, 16, 17, 20, 130, 228, pl. ii, fig. 6; pl. v, figs. 2, 3; pl. xii; text-fig. 25.
 1908 A, 49, 194, 278, 281, 286, pl. i, fig. 10; pl. iv; text-fig. 28.
 1917 A, 248, pl. viii, fig. 8.
 Hussakof, L. 1906 A, 137, 142, fig. 22.
 1926 A, 245.
 Hussakof and Bryant 1919 A, 13, 17, 50, pl. xii, pl. xiii, figs. 1, 2.
 Norton, W. H. 1906 A, 356.
 St. John O. 1902 A, 656, fig. 1 ("dinichthys").
 Sauvage, H. E. 1899 B, 86.
 Sauvage and Udden 1922 A, 138.
 Teller, E. E. 1911 A, 270.
 Upper Devonian (Genesee); New York; (State Quarry); Iowa; (New Albany); Kentucky; (Seneca); New York.
 Middle Devonian (Hamilton); Wisconsin; (Cedar Valley); Iowa, Illinois; (Mincola); Missouri.

Dinichthys rowleyi Branson.

- Branson, E. B. 1914 A, 60, pl. i, figs. 1, 2, 4-6; pl. iii, figs. 1, 2, 6.
 Upper Devonian; Missouri.

Dinichthys subgracilis Branson.

- Branson, E. B. 1911 B, 24, 29, pl. ii.
 Upper Devonian (Ohio shales); Ohio.

Dinichthys tenuidens Hussakof and Bryant.

Hussakof and Bryant 1919 A, 19, 55, pl. lxx, fig. 2. Upper Devonian (Portage); New York.

Dinichthys terrelli Newb.

- Hay, O. P. 1902 A, 347.
 Baird, S. F. 1876 A, cc.
 Branson, E. B. 1908 C, 363, figs. 1, 2
 1911 B, 30, pl. iii.
 Claypole, E. W. 1896 B, 351.
 1897 B, 323.
 1903 A, 316, 320, 322.
 Dean, B. 1909 C, 268, pls. xxxviii, xxxix.
 1911 A, 801
 Eastman, C. R. 1902 D, 655.
 1906 D, 14, fig. C.
 1907 B, 19, 228.
 1908 A, 195, 284.
 1917 A, 248
 Gaudry, A. 1896 A, 109, fig. 89.
 Hussakof, L. 1905 B, 414.
 1906 A, 118, figs. 20, 22, 24, 25.
 1908 A, 12.
 Hussakof and Bryant 1919 A, 32, pl. vi, figs 1-3; text-fig 10.
 Hyde, J. E. 1926 A, 497
 Kemna, A. 1904 A, 68
 Newberry, J. S. 1874 H, 189, 214.
 1889 A, *passim*, pl. iv, figs 1, 2; pl. v, figs 1-3, pl. vi, pl. vii, figs. 1, 2; pl. xxxii, fig. 1, pl. xxxiii, pl. xliii, fig. 2; pl. xlviii, figs. 1, 2, pl. 1.
 St John, O. 1902 A, 655.

PERISSOGNATHUS Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 81.
 The family position of this genus is doubtful.

STENOGNATHUS Newb. Type *Dinichthys corrugatus* Newb.

- Hay, O. P. 1902 A, 348.
 Dean, B. 1901 C, 120
Stenognathus corrugatus Newb.
 Hay, O. P. 1902 A, 348
 Claypole, E. W. 1903 A, 320, 322 (*Dinichthys*).
 Eastman, C. R. 1907 B, 19.
 1908 A, 285.
 Hussakof, L. 1908 A, 17.
 1909 B, 267, fig. 4.
 1911 B, 126.
 Hussakof and Bryant 1919 A, 68.
 Upper Devonian (Cleveland), Ohio.
Stenognathus denticulatus Hussakof and Bryant.
Hussakof and Bryant. 1919 A, 13, 71, text-fig 23.
 Upper Devonian (Genesee); New York.

Weller, S. 1926 A, 496, fig.

Upper Devonian (Cleveland and Ohio shales); Ohio.

Dinichthys tuberculatus Newb.

- Hay, O. P. 1902 A, 347.
 Arlitt, T. 1923 A, 482.
 Claypole, E. W. 1903 A, 320, 322
 Cleland, H. F. 1911 A, 156.
 Dames, W. 1898 D, 529
 Eastman, C. R. 1907 B, 15, 16, 21, 137, 228
 1908 A, 199, 279, 286, 288.
 1917 A, 249, pl. ii, fig. 1.
 Hussakof, L. 1906 A, 150.
 1908 A, 14.
 Upper and Middle Devonian (State Quarry?) and (Cedar Valley); Iowa: (Hamilton); Wisconsin (New Albany); Kentucky: (Chemung); Pennsylvania: (Corniferous?); Ohio: Devonian, Belgium.

***Dinichthys* sp. indet.**

- Hay, O. P. 1902 A, 347. Devonian (Catskill); New York.
 Branson, E. B. 1914 A, 63, pl. 1, fig. 3; pl. iii, figs. 2, 5-7 Devonian; Missouri.
 Eastman, C. R. 1907 B, 16, 17, 139, pl. vi, fig. 1 (Various specimens; Wisconsin, New York).
 1908 A, 282, 289, Devonian (Portage and Catskill 2 sp. ?); New York.
 Hussakof, L. 1908 A, 14, 21 (Third genus?)
 Upper Devonian (Cleveland); Ohio.
 Hussakof and Bryant 1919 A, 19, 56, text-figs 18-19 Upper Devonian (Portage); New York: 13, 60, Upper Devonian (Genesee); New York.

Type *P. aduncus* Hussakof and Bryant.

Perissognathus aduncus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 10, 81, pl. xx, figs. 1-16, pl. xxvii, figs 4, 4a Upper Devonian (Genesee); New York.

Dinichthys corrugatus Newb.

- Stenognathus dolichocephalus*** (Eastman).
Eastman, C. R. 1907 B, 17, 135, 228, pl. v, fig. 1 (*Dinichthys*).
Eastman, C. R. 1908 A, 281 (*Dinichthys*).
Hussakof, L. 1908 C, 311 (*Dinichthys*).
Hussakof and Bryant 1919 A, 66, text-figs 21, 22.
 Upper Devonian (Portage); New York
Stenognathus gouldii (Newb.).
 Hay, O. P. 1902 A, 346 (*Dinichthys*).
 Claypole, E. W. 1903 A, 320, 322 (*Dinichthys gouldii*).
 Dean, B. 1909 C, 272 (*Dinichthys*).
 Eastman, C. R. 1907 B, 19 (*Dinichthys*).
 1908 A, 284 (*Dinichthys*).
 Hussakof, L. 1906 A, 146 (Syn. of *Dinichthys prentiss-clarki*).
 1908 A, 8, fig. 1 (*Dinichthys*).
 1911 B, 126, pl. viii, fig. 5; text-fig. 6.

Hussakof and Bryant 1919 A, 68, 71, pl xv, fig 1

Hyde, J E 1926 A, 498.

Stensio, E A 1925 B, 179 (Dimichthys).

Upper Devonian (Cleveland); Ohio: (Genesee), New York.

Stenognathus gracilis (Claypole).

Hay, O P. 1902 A, 346 (Dimichthys).

Adams, L A 1919 A, 125, fig 4 (Stenognathus).

Claypole, E W. 1903 A, 320, 322 (Dimichthys)

Eastman, C R 1907 B, 19 (Dimichthys)

1908 A, 284 (Dimichthys)

Hussakof, L 1911 B, 126 (Dimichthys).

Upper Devonian (Cleveland), Ohio

Stenognathus insignis Hussakof and Bryant.

Hussakof and Bryant 1919 A, 18, 73, pl. xxi, fig. 2, text-fig 24, 78 (This species?). Upper Devonian (Genesee); New York

Stenognathus mixeri Hussakof and Bryant.

Hussakof and Bryant 1919 A, 19, 75, text-fig 25 Upper Devonian (Portage) New York

Stenognathus ringuebergi (Newberry)

Hay, O P. 1902 A 347 (Dimichthys)

Claypole, E W 1903 A, 320, 322 (Dimichthys)

Eastman, C R 1907 B 17, 134 (Dimichthys)

1908 A, 281 (Dimichthys)

Hussakof and Bryant 1919 A 19, 68, pl xi, fig 2, pl lxx, fig 1

Upper Devonian (Portage) New York

MACHÆROGNATHUS Hussakof and Bryant.

Hussakof and Bryant 1919 A, 83

The family position of this genus is doubtful

Type *M. woodwardi* Hussakof and Bryant.

Machærognathus woodwardi Hussakof and Bryant.

Hussakof and Bryant 1919 A, 10 83 pl xxi, figs 1a, 1b, text-fig 27 Upper Devonian (Genesee), New York.

TITANICHTHYS Newberry.

Hay, O P 1902 A, 348 (Titanichthys, Brontichthys)

Abel, O 1912 F, 487.

Allis, E P. 1905 A, 492.

Bridge, T. W 1904 A, 537.

Claypole, E W 1896 B (Titanichthys, Brontichthys)

1903 A, 316.

Dames, W 1898 E, 529.

Dean B 1900 A, 26

1900 B, 12

1901 C, 120

1907 A, 48.

1908 A, 202

1909 C 270.

Eastman C R 1905 A, 42.

1907 B, 140, 234.

1908 A, 203

Gaudry, A 1896 A, 59.

Heilprin, A 1887 A, 149

Hussakof, L 1906 A, 120.

1909 B, 269

1911 B, 124 (Brontichthys, syn of Titanichthys).

Jaekel, O 1919 A, 75.

1926 A, 166.

Kemna, A 1903 A, 353

1904 A, 69

Koken, E 1893 B, 172.

Newberry, J S 1889 A, 130.

Osborn, H F 1902 H, 749.

Pompeckj, J. F. 1913 A, 1116.

Sauvage, H E 1899 B, 86.

Stensio, E A. 1925 B, 137, 173.

Woodward, A S 1890 F, 147.

1915 B, lxx

1922 C, 80.

Zittel and Koken 1911 A, 82.

Type *T. agassizii* Newb.

Zittel and Schlosser 1923 A, 43

Zittel and Woodward 1902 A, 60

Titanichthys agassizii Newb.

Hay, O P 1902 A, 348

Claypole, E W 1903 A 320 (T agassizii)

Dean, B 1909 C, 270

Eastman, C R 1907 B, 19 fig 29

1908 A, 204 284, fig 31

Hussakof, L 1908 A, 18, figs 2 5a

Sauvage, H E 1899 B 87

Stensio, E A 1925 B 143 text-figs 14, 16

Upper Devonian (Cleveland), Ohio

Titanichthys attenuatus Wright.

Hay O P 1902 A 348

Claypole, E W 1903 A, 320.

Eastman, C R 1907 B, 19

1908 A, 284

Upper Devonian (Cleveland), Ohio

Titanichthys brevis (Claypole).

Hay, O P 1902 A 348.

Eastman, C R 1907 B, 19.

1908 A, 284

Upper Devonian (Cleveland), Ohio.

Titanichthys clarkii Newb.

Hay, O P. 1902 A, 348.

Claypole, E W. 1903 A, 316, 320 (T clarkii)

Dean, B 1909 C, 270 (T. clarkii)

Eastman, C. R 1907 B, 19, 141, 234, figs 27, 28 (T. clarkii).

1908 A, 285 (T clarkii).

Hussakof, L. 1906 A, 120

1908 A, 18, figs. 3, 4, 5b (T. clarkii).

Kemna, A. 1904 A, 68 (T. clarkii)

Upper Devonian (Cleveland), Ohio.

Titanichthys hussakof, nom. nov.

- Hay, O. P. 1902 A, 348 (*Brontichthys clarki*).
 Claypole, E. W. 1895 I, 8 (*Brontichthys clarki*).
 1903 A, 321 (*Brontichthys clarki*).
 Eastman, C. R. 1907 B, 19 (*Brontichthys clarki*).
 1908 A, 284 (*Brontichthys clarki*).
 Hussakof, L. 1911 B, 124, fig. 1 (*Titanichthys clarki*).
 Upper Devonian (Cleveland), Ohio.
 The assignment of this species to *Titanichthys* requires a new specific name.

Titanichthys rectus Claypole.

- Hay, O. P. 1902 A, 348.
 Claypole, E. W. 1896 B, 351.

- Claypole, E. W. 1903 A, 316, 320.
 Eastman, C. R. 1907 B, 19.
 1908 A, 285.
 Hussakof, L. 1911 B, 125, fig. 3.
 Hussakof and Bryant 1919 A, 65, text-fig. 20.
 Upper Devonian (Cleveland shale); Ohio.

Titanichthys sp. indet.

- Hay, O. P. 1902 A, 348.
 Branson, E. B. 1914 A, 63, pl. iii. Upper Devonian, Missouri.
 Cleland, H. F. 1911 A, 157. Middle Devonian; Wisconsin.
 Hussakof and Bryant 1919 A, 65, text-fig. 20.
 Upper Devonian (Cleveland), Ohio.

TRACHOSTEIDÆ Dean.

- Dean, B. 1901 C, 120

- Dean, B. 1909 C, 276.

TRACHOSTEUS Newb. Type *T. clarkii* Newb.

- Hay, O. P. 1902 A, 348.
 Claypole, E. W. 1896 B, 351.
 Dean, B. 1900 A, 25.
 1901 C, 120.
 1909 C, 272, figs. 56, 57.
 Dean, Gudger, Henn 1923 A, 665.
 Eastman, C. R. 1900 G, 288.
 Hussakof, L. 1906 A, 148.
 Hussakof and Bryant 1919 A, 91.
 Jordan, D. S. 1920 C, 447 (*Dinichthys mirabilis* erroneously given as type)

Trachosteus clarkii Newb.

- Hay, O. P. 1902 A, 348.
 Claypole, E. W. 1903 A, 320 (*T. clarki*).
 Dean, B. 1909 C, 272, pl. xli (*T. clarki*).
 Eastman, C. R. 1907 B, 19 (*T. clarki*).
 1908 A, 285.
 Hussakof, L. 1908 A, 21.
 Upper Devonian (Cleveland); Ohio.

MYLOSTOMATIDÆ A. S. Woodward.

- Hay, O. P. 1902 A, 350.
 Abel, O. 1919 A, 102.
 Dean, B. 1901 C, 120, 122 (*Mylostomidæ*).
 Eastman, C. R. 1906 D, 20 (*"mylostomids"*).
 1907 A, 211 (*"mylostomid"*).
 1907 B, 23, 149, 231.
 1908 A, 177.
 1909 C, 261 (*"mylostomids"*).
 Goodrich, E. S. 1909 A, 263 (*Mylostomidæ*).

- Gregory, W. K. 1907 D, 447 (*Mylostomidæ*).
 Jaekel, O. 1903 D, 58 (*"mylostomatiden"*).
 Jordan, D. S. 1905 A, 1, 587 (*Mylostomidæ*).
 1907 B, 760 (*Mylostomidæ*).
 1923 A, 89 (*Mylostomidæ*).
 Schlosser, M. 1917 A, 133 (*"mylostomatiden"*).
 Stensio, E. A. 1925 B, 180 (*"mylostomids"*).
 Zittel and Schlosser 1923 A, 45.

DINOMYLOSTOMA Eastman.

- Eastman, C. R. 1906 D, 15, 23.
 Dean, B. 1907 A, 47, 48.
 Eastman, C. R. 1906 A, 137.
 1907 B, 94, 151, 228.
 1908 A, 177.
 1909 B, 997.
 1909 C, 261.
 1917 A, 250.
 Hussakof, L. 1906 A, 119.
 1913 A, 245.
 Woodward, A. S. 1922 B, 34.

Dinomylostoma beecheri Eastman.

- Eastman, C. R. 1906 D, 23, pl. 1, figs. 4, 5; pl. n, figs. 13, 14, 16, 17; pls. iv, v; text-figs. F-H.
 1906 A, 137, fig. 2.
 1907 A, 226.
 1907 B, 17, 151, 228, pl. xiv, figs. 5, 6; pl. xv; text-figs. 32, 33.
 1908 A, 177, 282.
 1909 C, 261.

Type *D. beecheri* Eastman.

- Hussakof, L. 1908 A, 14.
 1913 A, 246; fig. 1a.
 Upper Devonian (Portage), New York.

Dinomylostoma buffaloensis Hussakof and Bryant.

- Hussakof and Bryant 1919 A, 12, 86, pl. xxiii, fig. 1; pl. xxiv, figs. 1, 2, 4, 5; text-fig. 29.
 Upper Devonian (Genesee); New York.

Dinomylostoma eastmani Hussakof.

- Hussakof, L. 1913 A, 245, pl. xivii, fig. 7; text-fig. 1b.
 Eastman, C. R. 1908 A, 179 (*"undescribed species"*).
 Devonian (New Albany); Kentucky.

Dinomylostoma sp. indet.

- Hussakof and Bryant 1919 A, 13, 19, 90, pl. xxiv, figs. 5, 6. Upper Devonian (Genesee); 19, 90, pl. xxiii, fig. 2: (Portage); New York.

COPANOGNATHUS Hussakof and Bryant. Type *C. crassus* Hussakof and Bryant.

Hussakof and Bryant 1919 A, 84.

Copagnognathus crassus Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 84, pl. xxii, figs. 2-4; text-fig. 28.

Upper Devonian (Genesee); New York.

MYLOSTOMA Newb. Type *M. variable* Newb.

Hay, O. P. 1902 A, 350.

Adams, L. A. 1919 A, 127.

Branson, E. B. 1922 A, 6.

Bridge, T. W. 1904 A, 537.

Claypole, E. W. 1896 B, 350, 351.

Dean, B. 1900 A, 26.

1901 B, 101.

1901 C, 120.

1907 A, 47, 48.

1908 A, 203.

1912 A, 226.

Dean, Gudger, Henn 1923 A, 664, 665.

Eastman, C. R. 1900 G, 288.

1906 A, 132, 136.

1906 D, 1, 20.

1907 A, 213.

1907 B, 97, 149, 231.

1908 A, 179.

1909 B, 997.

1909 C, 261.

1917 A, 250.

Hussakof, L. 1906 A, 119.

Hussakof and Bryant 1919 A, 125.

Pompecky, J. F. 1913 A, 1118, 1120.

Stensio, E. A. 1925 B, 164, 180.

Woodward, A. S. 1922 B, 35.

Zittel and Koken 1911 A, 84.

Mylostoma eastmani Branson.

Branson, E. B. 1914 A, 62, pl. u, fig. 3.

Upper Devonian; Missouri.

Mylostoma newberryi Eastman.

Eastman, C. R. 1907 A, 224, fig. D.

1908 A, 180, 285.

1909 C, 262.

Hussakof, L. 1908 A, 16.

Upper Devonian (Cleveland); Ohio.

Mylostoma terrelli Newb.

Hay, O. P. 1902 A, 350.

Claypole, E. W. 1903 A, 320.

Eastman, C. R. 1906 D, pl. iii, fig. 21.

1907 A, 213.

1908 A, 180, 285.

1909 B, 997.

1909 C, 264.

1917 A, 251.

Hussakof, L. 1909 B, 268 (Syn. of *M. variable*).

Upper Devonian (Cleveland); Ohio.

Mylostoma variable Newb.

Hay, O. P. 1902 A, 350.

Abel, O. 1912 F, 439.

1919 A, 103, fig. 62.

1920 A, 324, fig. 515.

Claypole, E. W. 1903 A, 320.

Dean, B. 1901 B, 100, pls. vii, viii; text-figs. 3-10.

Eastman, C. R. 1906 A, 136, fig. 1.

1906 D, 21, pl. i, figs. 1-3, 6-9, pl. ii, figs.

10-12, 15; pl. iii, figs. 19, 20; text-fig. E.

1907 A, 213, pl. xix; text-figs. A-C.

1907 B, 19, 98, 149, 231, pl. xiv, figs. 1-4; text-figs. 18, 31.

1908 A, 162, 285, figs. 23, 25.

1909 B, 997.

1909 C, 263, figs. 1, 3.

Goodrich, E. S. 1909 A, 264, fig. 233 (*M. variable*).

Hussakof, L. 1908 A, 16.

1909 B, 267.

1911 B, 124, pl. viii, fig. 2 (*Brontichthys clarki*, Clark's specimen).

Newberry, J. S. 1889 A, 165, pl. xiii, figs. 3-5; pls. xv, xvi.

Zittel and Schlosser 1923 A, 45, fig. 58.

Upper Devonian (Cleveland); Ohio.

DIPLOGNATHUS Newb. Type *D. mirabilis* Newb.

Hay, O. P. 1902 A, 348.

Abel, O. 1912 F, 487.

Dean, B. 1900 A, 26.

1901 C, 120.

Dean, Gudger, Henn 1923 A, 664.

Eastman, C. R. 1908 A, 181.

Hussakof, L. 1906 A, 122, 148.

Schlosser, M. 1917 A, 133.

Stensio, E. A. 1925 B, 176 (*Diplognathus*).

Zittel and Koken 1911 A, 83.

Zittel and Schlosser 1923 A, 43.

Diplognathus mirabilis Newb.

Hay, O. P. 1902 A, 348.

Adams, L. A. 1919 A, 125, fig. 4.

Claypole, E. W. 1896 B, 351 ("*Diplognathus*").

1903 A, 320 (*D. mirabile*).

Eastman, C. R. 1907 B, 19.

1908 A, 285.

1909 C, 269.

Hussakof, L. 1906 A, 149, fig. 25.

1908 A, 14.

Jaekel, O. 1919 A, 80, fig. 7.

Koken, E. 1893 B, 172.

Woodward, A. S. 1922 B, 32, fig. 4.

Upper Devonian (Cleveland); Ohio.

DINOGNATHUS Hussakof. Type *D. ferox* Hussakof.

Hussakof, L. 1909 B, 268.

Eastman, C. R. 1909 A, 998.

1909 C, 264, fig. 2.

1917 A, 251 (Syn. ? of *Mylostoma*).**Dinognathus ferox** Hussakof.

Hussakof, L. 1909 B, 268, fig. 5.

Eastman, C. R. 1909 B, 997.

1909 C, 264.

1915 B, 440.

1917 A, 251, fig. 5 (Syn. ? of *Mylostoma terrelli*).

Upper Devonian (Cleveland shale); Ohio.

SELENOSTEIDÆ Dean.

Dean, B. 1901 C, 120.

Goodrich, E. S. 1909 A, 263.

Jordan, D. S. 1905 A, 1, 587.

1923 A, 89.

SELENOSTEUS Dean. Type *S. kepleri* Dean = *S. brevis* (Claypole).

Dean, B. 1901 A, 94.

1901 C, 114, 120

Hussakof, L. 1906 A, 122.

Selenosteus brevis (Claypole).Hay, O. P. 1902 A, 348 (*Titanichthys*).Abel, O. 1919 A, 100, fig. 59 (*S. kepleri*).Dean, B. 1901 A, 94, pls. v, vi; text-figs. 1, 2 (*S. kepleri*).Eastman, C. R. 1907 B, 19 (*S. kepleri*).1908 A, 285 (*S. kepleri*)Goodrich, E. S. 1909 A, 264, fig. 233 (*S. kepleri*).Hussakof, L. 1908 A, 17 (*S. kepleri*)

1911 B, 125, pl. viii, fig. 4.

Upper Devonian (Cleveland); Ohio.

Selenosteus sp. indet.

Hussakof and Bryant 1919 A, 19, 78, text-fig. 26 Upper Devonian (Portage), New York

STENOSTEUS Dean. Type *S. glaber* Dean.

Dean, B. 1901 A, 89.

Dean, B. 1901 C, 120.

Hussakof, L. 1906 A, 148

Jordan, D. S. 1920 C, 492 (Type "*S. glaberi*").

Stensio, E. A. 1925 B, 173

Stenosteus glaber Dean.

Dean, B. 1901 A, 89, pls. iii, iv.

Eastman, C. R. 1907 B, 19

1908 A, 285

Hussakof, L. 1908 A, 18.

Upper Devonian (Cleveland); Ohio.

Stenosteus pertenuis Branson.

Branson, E. B. 1911 B, 28, pl. 1, figs. 8, 10, 11 Devonian (Ohio shales); Ohio.

CALLOGNATHUS Newb. Type *C. regularis* Newb.

Hay, O. P. 1902 A, 338.

Dean, B. 1901 C, 120.

Callognathus regularis Newb.

Hay, O. P. 1902 A, 338

Claypole, E. W. 1896 B, 353

1903 A, 321 (*C. regularis*).

Hussakof, L. 1908 A, 6.

Upper Devonian (Cleveland), Ohio

Callognathus serratus Newb.

Hay, O. P. 1902 A, 338.

Claypole, E. W. 1896 B, 353.

1903 A, 321.

Eastman, C. R. 1907 B, 17, 19.

1908 A, 282, 285

Hussakof, L. 1908 A, 6.

Upper Devonian (Cleveland); Ohio. (Portage); New York.

Superorder DIPNEUSTA Haeckel.

Haeckel, E. 1868 A, 435, 441, 447.

Unless otherwise indicated the writers, as cited, use for this superorder the name *Dipnois*.
 Hay, O. P. 1902 A, 350.

Abel, O. 1912 F, 635 ("*dipneusten*").1914 C, 354 ("*dipneusten*").

1919 A, 33, 171, fig. 7.

1920 A, 336, 339, fig. 539 (*Dipneusti*).1921 A, 155 ("*dipneusten*").1926 C, 44 ("*dipneusten*").

Agar, W. E. 1907 A, 625

Allis, E. P. 1909 A, 202 (*Dipneusta*).

1913 A, 324.

1915 A, 594 (*Dipneusti*).1922 A, 151 (*Dipneusti*).1923 B, 156 (*Dipneusti*).

Anderson, R. J. 1912 D, 250.

Anthony, R. 1912 A ("*dipnois*").

Ardt, T. 1907 D, 651

1923 A, 700 ("*dipnoer*")Ayers, H. 1885 A, 479 ("*dipnoer*").1906 A, 77 (*Dipneusta*).

Baird, H. S. 1922 A, 115.

Baraldi, G. 1877 A, 28.

Bardeleben, K. 1896 A, 113 ("*dipnoer*").1901 A, 28 ("*dipnoer*").1903 A, 20 ("*dipnoer*").

1907 A, 37.

Barrell, J. 1915 B, 402, 406.

Beer, G. R. 1926 A, 303 (*Dipneusta*).

Belling, D. E. 1912 A, 69.

Boas, J. E. V. 1914 C, 231.

Boulenger, G. A. 1901 D, 29 (*Dipneusti*).1902 A, 150 (*Dipneusti*).Braus, H. 1901 B, 165, 194 ("*dipnoer*").1906 A ("*dipnoer*").

- Bridge, T. W. 1878 A, 730.
 1897 A, 602.
 1904 A, 505, 738.
- Brindley, H. H. 1900 A, 325 ("Dipnoans").
- Briquel, P. 1898 A, 14 (Dipneustes).
- Broth, F. 1904 A, 105 ("dipnoer").
- Bronn, H. G. 1849 A, 812, seq.
- Carter, J. T. 1905 A, 136, 139.
- Carus, V. 1875 A, 594.
- Case, E. C. 1915 A, 124 ("dipnoans").
 1924 B, 7.
- Chamberlin, T. C. 1900 A, 411 ("dipnoans").
- Cockerell, T. D. A. 1911 A, 831 (Dipnoi or Dipneusta).
- Cope, E. D. 1871 T, 449, 450.
 1885 BB, 64.
 1891 B, 455.
 1891 N, 10, 14.
- Coulon, L. 1903 A, 151 (Dipneustes).
- Cunningham, J. T. 1897 A, 488.
 1912 A, 246, 253.
- Dames, W. 1899 B, 366.
- Dean, B. 1900 A, 22, 29.
 1912 A, 227.
 1916 A ("fishes").
- Dean, Gudger, Henn 1923 A, 677.
- Delafontaine, M. 1877 A, 266.
- Derjugin, K. 1910 A, 587.
 1910 B, 208.
- Dollo, L. 1889 E, 153 (Dipneustes).
 1906 B, 136, 137 (Dipneustes).
- Dombrowski, B. A. 1925 A, 79
- Druner, L. 1902 A, 438 ("dipnoer").
- Duméril, A. 1870 A, 427.
- Eastman, C. R. 1900 G, 287.
 1901 C, 329.
 1905 A, 50 (Dipneusti).
 1906 A, 132 (Dipneusti).
 1906 D, 1 (Dipneusti).
 1907 B, 23, 88, 228 (Dipneusti)
 1908 A, 62 (Dipnoi); 69, 157 (Dipneusti).
 1911 A, 20 (Dipneusti).
 1917 A, 245, 247.
- Eastman and Barbour 1902 A, 267 ("dipnoans")
- Ebner, V. 1896 A, 146 ("dipnoer").
- Edgeworth, F. H. 1925 A, 225.
- Frassetto, F. 1915 A.
- Fuchs, H. 1907 C, 26 ("dipnoer").
 1908 C, 208 ("dipnoer").
 1909 B, 165 ("dipnoer").
- Furbinger, K. 1902 A ("dipnoer").
 1904 A ("dipnoer").
- Gadow, H. 1896 A, 15.
 1902 B, 359.
 1910 A, 27.
- Gaskell, W. H. 1908 A, 23, 45, 148 ("dipnoans").
- Gaupp, E. 1898 B, 841, 865 ("dipnoer").
 1901 B, 941 ("dipnoer").
 1905 D, 920 ("dipnoer").
 1906 B, 683.
- Gegenbaur, C. 1867 B, 382, 391.
 1870 C, 425.
 1879 A, 522 ("dipnoer").
- Gill, T. 1905 A, 658 (Dipnoi, Dipneusti).
 1909 B, 838.
- Goodrich, E. S. 1904 A, 480, 503.
 1908 A, 765, 767.
 1909 A, 230, 238, 366.
- Goodrich, E. S. 1913 A, 80.
 1924 A, 935.
- Gregory, W. K. 1904 A, 58.
 1907 D, 447 (Dipneusti).
 1911 A, 509 ("dipnoans").
 1911 B, 582.
 1912 D, 220.
 1914 C, 267.
 1915 D, 320, 348.
 1920 A, 218.
 1922 A, 9, 79 ("dipnoans," Dipnoi).
 1927 G, 267 ("dipnoan fishes").
- Gregory and Adams 1915 A, 763.
- Haeckel, E. 1873 A, 512, 520, 586 (Dipneusta).
 1893 A, xvi (Dipneusta).
- Hanson, F. B. 1919 B, 67 (Dipneusti).
- Hase, A. 1907 A, 658 ("dipnoer").
 1913 A ("dipnoer").
- Hasse, C. 1893 B, 533.
 1893 C, 91.
- Hatschek, B. 1889 B, 115 ("dipnoer").
- Heilprin, A. 1887 A, 302.
- Hertwig, O. 1892 A.
- Hilsheimer, M. 1913 A, 473 ("dipnoer").
- Hoernes, R. 1886 A, 557.
- Howes, G. B. 1894 A, 83.
 1902 A, 525.
- Hubbs, C. L. 1919 A, 570 (Amphibioides, part; Dipneusti).
- Hubrecht, A. A. W. 1908 A, 150
- Huene, F. 1926 A, 260 ("dipnoer").
- Hussakof, L. 1906 A, 126 ("dipnoans").
 1908 C, 313 ("dipnoans").
 1910 B, 305 ("dipnoans").
- Huxley, T. H. 1859 D, 417.
 1869 G, 453.
 1876 E, 103, 121.
 1881 A, 454.
 1883 B, 570.
- Imms, A. D. 1904 A, 23
- Jacobshagen, E. 1919 A, 75, 110
 1920 A, 88, 92, 95 ("dipnoer").
- Jaekel O. 1901 A, 558, 559 ("dipnoer").
 1902 B, 135 ("dipnoer").
 1902 C, 610 ("dipnoer").
 1902 E, 1115 ("dipnoer").
 1903 F, 37 ("dipnoer").
 1903 G, 389 ("dipnoer").
 1906 D, 187 ("dipnoer").
 1909 A, 198 ("dipnoer").
 1911 A, 69, 77.
 1927 A, 251 (Dipnoi).
 1927 B, 338 ("dipnoer").
- Jaquet, M. 1898 B, 320, pls. xxv-xxix (Protopterus).
- Jordan, D. S. 1903 A, 136 ("dipnoans").
 1905 A, 1, 609; 11, 566 (Dipneusti).
 1907 B, 225, 235, 760 (Dipneusti).
 1923 A, 110.
- Katharmer, L. 1899 A, 345 ("dipnoer").
- Kehler, F. A. 1896 A, 351.
- Keith, A. 1911 A, 294.
- Kellicott, W. E. 1905 A, 137.
- Kerr, J. G. 1900 A, 233.
 1900 B, 299.
 1901 A, 694 ("dipnoans").
 1908 A, 169 ("dipnoans").
 1908 B, 170.

- Keyes, C. 1922 A, pl. iii (Dipnoia).
1923 A, 113.
- Kingsbury, B. F. 1895 A, 132.
- Kingsley, J. S. 1885 B, 299.
1906 A, 249.
1901 B, 338.
1925 A, 13, 35, 115, 240.
- Klaatsch, H. 1893 B, 654.
1893 C, 148, 181.
- Koken, E. 1893 B, 252 ("dipnoer").
- Krall, A. 1908 A, 578 ("dipnoer").
- Lakjer, T. 1927 A ("dipnoer").
- Leunis and Ludwig. 1883 A, 777.
- Lonnberg, E. 1901 A.
1902 A.
- Lubosch, W. 1911 B, 741, 748 ("dipnoer").
- Lull, R. S. 1917 B, 485, 488 (Dipneusta).
- Luther, A. 1913 B, 33, 61 (Dipneusta).
- Lutken, C. 1871 A, 291 ("diptériens").
- Mayhew, R. L. 1924 A, 331.
- Meek, A. 1916 A, 55.
- Miall, L. C. 1872 A, 39.
- Mollier, S. 1897 A, 3 ("dipnoer").
- Muller, J. 1845 A, 135.
- Nauck, E. T. 1926 B, 72 ("dipnoer").
- Osborn, H. F. 1905 N, 235.
1916 E, 605.
1917 B, 311.
- Osburn, R. C. 1907 A, 424.
1907 B, 181.
- Oswald, F. 1911 A, 409.
- Paramore, R. H. 1910 A, 1393.
- Parker, W. K. 1879 C, 338.
1887 B, 54.
1888 C, 399.
1890 A, 62.
- Parker and Haswell. 1897 A, 229.
- Pehrson, T. 1922 A.
- Periet, A. 1900 A, 788 ("dipneustes").
- Petromievics, B. 1919 A, 411 ("dipneustes").
- Pompecki, J. F. 1913 A, 1133.
- Priem, F. 1908 B, 6 ("dipneustes").
- Rabl, C. 1901 A, 489 ("dipnoer").
- Rauther, M. 1913 A, 1099.
- Regan, C. T. 1904 A, 330, 331, 339 (Dipneusta).
1909 B, 75, 76 (Dipneusta).
- Reynolds, S. H. 1897 A, 105, 106, 539 (Dipneusta).
- Ridewood, W. G. 1896 A, 386.
- Rose, C. 1892 F, 399 ("dipnoer").
- Romer, A. S. 1924 A, 121.
- Rosén, N. 1916 A, 23.
- Ryder, J. 1885 E, 91, 93.
1886 A, 71.
- Sabatier, A. 1904 A, 249 ("dipneustes").
- Sagemehl, M. 1883 A ("dipnoer").
1884 A ("dipnoer").
- Sauvage, H. E. 1899 A, 6 ("dipnoiques").
- Schaumsland, H. 1906 A, 483 ("dipneusten").
- Schlosser, M. 1917 A, 133, 139, 146 ("dipnoer").
- Schmalhausen, J. J. 1913 A, 47 ("dipnoer").
1913 B, 757 ("dipnoer").
1913 C.
1916 A, 65.
1916 B, 147.
1917 A, 108.
- Schmalhausen, J. J. 1923 B, 543.
- Schneider, A. 1887 A, 97, pl. xi (Dipneusti).
- Schone, G. 1902 A, 1 ("dipnoer").
- Schuchert, C. 1915 A, 667.
- Schuchert and Levene. 1927 A, 285 ("lung-fishes").
- Semon, R. 1898 A, 100 ("dipnoer").
1899 B, 295 ("dipnoer").
1901 A, 180, 184 ("dipnoer").
1901 B, 130 ("dipnoer").
- Sewertzoff, A. N. 1902 A, 593 ("dipnoer").
1918 A, 207.
1926 A, 507, 534 (Dipnoi, Dipneusta).
1926 C, 44 ("dipneusten").
1926 D, 26 (Dipneusta).
1926 F, 274.
- Shann, E. W. 1919 A, 532.
- Simpson, G. G. 1926 J, 173.
- Smith, G. E. 1911 A, 293.
1912 A, 426.
- Solger, B. 1890 A, 265 ("dipnoer").
- Sollas, W. J. 1920 A, 525.
- Sollas and Sollas. 1903 A, 287.
- Stannius, H. 1854 A, 7, seq.
- Steinmann, G. 1907 A, 407.
1927 A, 76 ("dipnoer").
- Stensio, E. A. 1921 A, 125.
1925 A, 131, 182.
1925 B, 161, 187.
- Steihan, P. 1900 A, 307 ("dipnoiques").
- Stromer, E. 1912 A, 27.
1920 A, 12.
1925 B, 348.
- Suschkin, P. P. 1910 A, 248 ("dipnoer").
- Terra, P. 1911 A, 220.
- Thevenin, A. 1910 A, 35 (Dipneustes).
- Traquair, R. H. 1878 A, 12.
1880 A, 159.
1900 C, 505.
- Ussow, S. 1900 A, 182.
- Vanhoffen, E. 1891 A, 134 ("dipnoer").
- Vogel, R. 1909 A, 501 ("dipnoer").
- Wallace, A. R. 1876 A, n, 458.
- Watson, D. M. S. 1913 D, 26.
1925 A, 849.
1926 A, 190, 194.
- Watson and Gill. 1923 A, 163.
- Wiedersheim, R. 1880 C, 122 ("dipnoer").
1902 A, 45 ("dipnoer").
- Williston, S. W. 1912 E, 258.
- Winslow, G. M. 1898 A, 149, 181.
- Wintrebert, P. 1910 B, 79 ("dipneustes").
- Woodward, A. S. 1898 E, 329 ("dipnoan fishes").
1906 C, 274.
1909 A, 323 ("dipnoans").
1910 B, 464 ("dipnoans").
1915 B, lxx.
1922 B, 27 (Dipneusti).
1922 C, 77.
1924 A, 114.
- Woodward, H. 1904 B, 141.
- Wright, W. 1909 A, 671.
- Zittel and Koken. 1911 A, 73.
- Zittel and Schlosser. 1923 A, 78.
- Zittel and Woodward. 1902 A, 61.

Order DIPTEROMORPHI, new name.

- Hay, O. P. 1902 A, 351. (Ctenodipterini)
 Ardit, T. 1907 D, 648 (Ctenodipterini).
 Barrell, J. 1915 B, 402 (Ctenodipterini).
 Briquel, P. 1898 A, 16 (Ctenodipterini).
 Eastman, C. R. 1906 A, 142 ("ctenodipterines").
 1906 D, 6 ("ctenodipterines").
 1907 B, 23, 94, 157 (Ctenodipterini).
 1908 A, 69, 158, 207 (Ctenodipterini).
 1909 C, 269 ("ctenodipterines")
 Gregory, W. K. 1907 D, 447 (Ctenodipterini)
 Hilzheimer, M. 1913 A, 473 (Ctenodipterini).
 Hoernes, R. 1886 A, 550 (Ctenodipteridæ).
 Huxley, T. H. 1861 D, 440, 444 (Ctenodipterini).
 Jaekel, O. 1911 A, 77 (Dipteri).
 Jordan, D. S. 1905 A, i, 612 (Ctenodipterini).
 1907 B, 238, 760 (Ctenodipterini).
 1923 A, 110 (Ctenodipterini).
 Klaatsch, H. 1890 A, 223 ("ctenodipterinen").
 Semon, R. 1901 B 130 ("ctenodipterinen").
 Traquair, R. H. 1878 A, 12 (Ctenodipterini).
 1880 A, 155, 159 (Ctenodipterini).
 Zittel and Woodward 1902 A, 61 (Ctenodipterini).

DIPTERIDÆ Owen.

- Owen, R. 1846 E, 50.
 Hay, O. P. 1902 A, 351.
 Agassiz, L. 1844 D, 142 ("dipteriens").
 Bronn, H. G. 1849 A, 780, seq. (Dipterini).
 Cope, E. D. 1891 N, 15.
 Dean, Gudger, Henn 1923 A, 401.
 Eastman, C. R. 1907 B, 23, 159.
 1908 A, 210 (Ctenodontidæ).
 Goodrich, E. S. 1908 A, 765.
 1909 A, 256
 Jordan, D. S. 1905 A, i, 612.
 1907 B, 226, 760.
 1923 A, 110.
 Reynolds, S. H. 1897 A, 70, 111, 117, 124.
 Schlosser, M. 1917 A, 133 ("diptenden").
 Sewertzoff, A. N. 1923 B.
 Stromer, E. 1905 H, 216.
 Zittel and Koken 1911 A, 73
 Zittel and Schlosser 1923 A, 79.

DIPTERUS Sedgw. and Murch. Type *D. valenciennesi* Sedgw. and Murch.

- Hav, O. P. 1902 A, 351.
 Abel, O. 1907 D, (162).
 1919 A, 33, 180, figs. 7, 129-135.
 1920 A, 340, fig. 509.
 Agassiz, L. 1832 A, 140.
 1833 A, 471 (Catopterus).
 1835 B, 342.
 1835 H, 204 (Catopterus).
 1839 A, 599
 1877 A, 124.
 Allis, E. P. 1905 A, 487.
 Ardit, T. 1923 A, 701.
 Atthey, T. 1868 C, 354.
 Barkas, W. J. 1874 D, 550.
 Berry, E. W. 1925 A, 358.
 Boklen, H. 1887 A, 78
 Bridge, T. W. 1897 A, 603.
 1904 A, 506, fig. 301.
 Briquel, P. 1898 A, 14.
 Bronn, H. G. 1848 A, 428.
 1849 A, 655.
 Calvin, S. 1897 B, 17.
 Coulon, L. 1903 A, 153
 Cunningham, J. T. 1912 A, 254, fig. 23.
 Dean, B. 1907 A, 48.
 Dean, Gudger, Henn 1923 A, 625.
 Delafontaine, M. 1877 A, 268.
 Derjugin, K. 1910 B, 208.
 Eastman, C. R. 1905 A, 54, fig. 7.
 1906 A, 131.
 1907 B, 159, 193, 229, fig. 34.
 1908 A, 210, 231, figs. 33, 34.
 1911 A, 16, fig. 4.
 1915 A, 282.
 1917 A, 245.
 Etheridge, R. 1906 A, 131.
 Giebel, C. G. 1855 A, 118.
 Goodrich, E. S. 1904 A, 503, 506, fig. 6.
 1908 A, 765, 767.
 Jordan, D. S. 1905 A, i, 612.
 1907 B, 226, 760.
 1923 A, 110.
 Reynolds, S. H. 1897 A, 70, 111, 117, 124.
 Schlosser, M. 1917 A, 133 ("diptenden").
 Sewertzoff, A. N. 1923 B.
 Stromer, E. 1905 H, 216.
 Zittel and Koken 1911 A, 73
 Zittel and Schlosser 1923 A, 79.
 Goodrich, E. S. 1909 A, 509, figs
 Gregory, W. K. 1915 D, 323, fig. 1.
 Heulprin A 1887 A, 149, 301.
 Hussakof, L. 1908 C, 312
 1910 B, 305
 Huxley, T. H. 1861 D, 434, figs 9, 10
 1876 E, 121.
 1876 F, 166.
 Jaekel, O. 1911 A, 77, fig. 80.
 Jordan D S 1905 A, i, 612, ii, 567.
 1907 B, 238.
 Jordan and Evermann 1917 A, 125
 Kerr, J. G. 1900 B, 299.
 Knaer, J. 1924 A, 93, fig. 40.
 Lankester, E. R. 1905 A, 250, fig. 182.
 Lull, R. S. 1917 B, 485
 Miall, L. C. 1872 A, 40
 Miller, H. 1851 A, 92
 Muller, J. 1845 A, 93.
 Murchison, R. I. 1845 A, 252, fig. 49.
 Osborn, H. F. 1916 E, 605, fig. 14.
 1917 B, 170, fig.
 Petronevics, B. 1919 A, 407, 411.
 Pompeckj, J. F. 1913 A, 1133, fig. 39.
 Regan, C. T. 1904 A, 339.
 Ridewood, W. G. 1896 A, 388.
 Schlosser, M. 1898 D, 121.
 Schmalhausen, J. J. 1913 A, 75.
 Semon R. 1901 A, 181.
 1901 B, 125, figs. e-i.
 Sewertzoff, A. N. 1923 B, 140.
 1924 A, 579
 1926 A, 523, 534.
 1926 C, 44
 1926 D, 80, 89
 Stensig, E. A. 1921 A, 136.
 1925 A, 182
 1925 B, 162
 Stromer and Peyer 1917 A, 37.

- Suschkin, P. P. 1910 A, 249.
 Traquair, R. H. 1890 A, 151, 159.
 1890 D, 97, pl. n.
 1898 B, 46.
 1900 C, 505.
 Watson, D. M. S. 1916 B, 28, pl. i, fig. 1; text-figs 6, 8, 9.
 1917 A, 979.
 1926 A, 195, figs 2, 3.
 Watson and Day 1916 A, 28, text-figs. 6, 8, 9
 Watson and Gill 1923 A, 168-215, figs. 32-34.
 Woodward, A. S. 1910 B, 467.
 1915 B, lxx.
 1922 C, 77, fig. 78.
 Zittel and Koken 1911 A 74.
 Zittel and Schlosser 1923 A, 79, figs. 135, 136.
- Dipterus angustus Newberry.**
 Hay, O. P. 1902 A, 354 (Sagenodus).
 Eastman, C. R. 1907 B, 22.
 1908 A, 212, 289.
 1917 A, 247, pl. viii, fig. 5.
 Hussakof, L. 1908 A, 53 (Sagenodus).
 Upper Devonian (Catskill or Chemung); Pennsylvania.
- Dipterus calvini Eastman.**
 Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 16, 160, 229, pl. iv, fig. 1.
 1908 A, 49, 213, 219, 279, pl. ii, fig. 1.
 Middle Devonian (Cedar Valley), Iowa.
- Dipterus contraversus Hay.**
 Hay, O. P. 1902 A, 351.
 Claypole, E. W. 1903 A, 320 (D. radiatus)
 Eastman, C. R. 1907 B, 22.
 1908 A, 212, 289.
 Hussakof, L. 1908 A, 51
 Upper Devonian (Catskill); Pennsylvania.
- Dipterus costatus Eastman.**
 Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 20, 161, 229, pl. iv, fig. 9.
 1908 A, 213, 220, 286, pl. ii, fig. 8.
 Upper Devonian (State Quarry); Iowa.
- Dipterus digitatus Eastman.**
 Eastman, C. R. 1908 A, 213, 221, pl. ii, fig. 6; pl. vii, figs. 16-25.
 Branson, E. B. 1914 A, 65 pl. iv, fig. 21.
 Eastman, C. R. 1908 A, 286.
 1915 A, 282, fig. 2.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa, Missouri, Colorado.
- Dipterus eastmani Stauffer.**
 Stauffer, C. R. 1909 A, 151, 182, 196, pl. xvii, figs. 14-17.
 Middle Devonian (Columbus); Ohio.
- Dipterus flabelliformis Newb.**
 Hay, O. P. 1902 A, 351.
 Butts, C. 1903 A, 991 (Ctenodus).
 Claypole, E. W. 1903 A, 319.

- Eastman, C. R. 1907 B, 21, 163.
 1908 A, 214, 221.
 Hussakof, L. 1908 A, 150
 1908 A, 51.
 Devonian (Chemung); Pennsylvania.
- Dipterus fleisheri (Newb.).**
 Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 22, 162, 229, pl. vii, fig. 2.
 1908 A, 212, 225, 289, pl. ii, fig. 16.
 Hussakof, L. 1908 A, 52.
 Upper Devonian (Catskill); Pennsylvania, New York
- Dipterus gemmatus Hussakof and Bryant.**
 Hussakof and Bryant 1919 A, 15, 170, pl. iv, fig. 2.
 Upper Devonian (Genesee); New York.
- Dipterus ithacensis Williams.**
 Hay, O. P. 1902 A, 351.
 Eastman, C. R. 1907 B, 18, 163.
 1908 A, 212, 213, 282.
 Upper Devonian (Portage); New York.
- Dipterus minutus Newb.**
 Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 21, 163.
 1908 A, 214, 288
 Upper Devonian (Chemung); Pennsylvania.
- Dipterus mordax Eastman.**
 Hay, O. P. 1902 A, 352.
 Branson, E. B. 1922 A, 6, 35, 128, pl. xxi, fig. 11.
 Eastman, C. R. 1907 B, 20, 161, 229, pl. iv, figs. 5, 6
 1908 A, 213, 215, 220, 286, pl. ii, figs. 4, 5; pl. vii, figs. 5-9.
 1915 A, 282, fig. 3.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa; Devonian (Callaway); Missouri; Devonian; Colorado.
- Dipterus nelsoni Newb.**
 Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 319 (D. nelsoni), p. 320 (D. levis).
 Eastman, C. R. 1907 B, 21, 163, 229 (D. alleghaniensis, D. levis as syns).
 1908 A, 213, 214, 223, 288, pl. ii, fig. 11; pl. vii, figs. 1-4 (D. levis a syn.).
 Hussakof, L. 1906 A, 150
 1908 A, 52.
 Upper Devonian (Chemung); Pennsylvania, New York.
- Dipterus pectinatus Eastman.**
 Eastman, C. R. 1908 A, 213, 222, 286, pl. ii, figs. 2, 7; pl. vii, figs. 10-15.
 Eastman, C. R. 1915 A, 282, fig. 4.
 1917 A, 246.
 Upper Devonian (State Quarry); Iowa; Devonian; Colorado.

Dipterus quadratus (Newb.).

- Hay, O. P. 1902 A, 355 (Sagenodus).
 Eastman, C. R. 1902 B, 97 (Sagenodus).
 1902 G, 541 (Sagenodus).
 1903 B, 194 (Sagenodus).
 1907 B, 163.
 1908 A, 214.
 Hussakof, L. 1916 A, 131 ("Rhizodus quadratus").
 Pennsylvanian; Ohio, Illinois.

Dipterus sherwoodi Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 320.
 Eastman, C. R. 1907 B, 22, 162.
 1908 A, 212, 226, 289.
 Hussakof, L. 1908 A, 52.
 Upper Devonian (Catskill); Pennsylvania.

PALÆDAPHUS Van Beneden and de Koninck. Type *P. insignis* Van B. and de K.

- Hay, O. P. 1902 A, 352.
 Arltdt, T. 1923 A, 701.
 Barkas, W. J. 1874 D, 547.
 Gervais, P. 1852 A, explan. pl. lxxvii.
 1859 A, 558, pl. lxxvii.
 Jordan, D. S. 1923 A, 110.
 Woodward, A. S. 1890 F, 147.
 Zittel and Koken 1911 A, 74.
 Zittel and Schlosser 1923 A, 80, fig. 137.
 Zittel and Woodward 1902 A, 63

Dipterus uddeni Eastman.

- Hay, O. P. 1902 A, 352.
 Eastman, C. R. 1907 B, 16, 160, 229, pl. iv. figs 3, 4.
 1908 A, 213, 218, 279, pl. ii, fig. 3.
 Hussakof, L. 1908 A, 53.
 Middle Devonian (Cedar Valley); Iowa.

Dipterus sp. indet.

- Clarke, J. M. 1913 A, 98. Lower Devonian; New Brunswick.
 Eastman, C. R. 1907 B, 164, pl. iv, figs. 2, 7, 8, 12 Upper Devonian (State Quarry); Iowa.
 1908 A, 279. Middle Devonian (Cedar Valley); Iowa.
 Hussakof and Bryant 1919 A, 15, 171. Upper Devonian (Genesee); New York.

Palædaphus lesleyi (Newb.).

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 319 (Helodus).
 Eastman, C. R. 1907 B, 21 (Helodus).
 1908 A, 213, 288 (Helodus).
 1909 B, 997 (Helodus).
 1909 C, 269 (Helodus).
 Hussakof, L. 1908 A, 53.
 Devonian (Chemung); Pennsylvania.

CONCHODUS M'Coy. Type *C. ostreaformis* M'Coy.

- Hay, O. P. 1902 A, 352.
 Boklen, H. 1887 A, 78.
 Eastman, C. R. 1908 A, 227.
 Traquair, R. H. 1878 A, 16.
 Zittel and Koken 1911 A, 74

Conchodus plicatus Dawson.

- Hay, O. P. 1902 A, 352.
 Eastman, C. R. 1908 A, 234.
 Lambe, L. M. 1904 C, 42.
 Coal Measures; Nova Scotia.

Conchodus variabilis Eastman.

- Eastman, C. R. 1908 A, 213, 230, 286, pl. viii, except figs 16, 20, 29, 34.
 Branson, E. B. 1914 A, 65, pl. iii, fig. 8.
 Upper Devonian (State Quarry); Iowa (Craghead); Missouri.

Conchodus sp. indet.

- Bell, W. A. 1913 A, 340, Pennsylvanian (Joggins); Nova Scotia.

GANORHYNCHUS Traquair. Type *G. woodwardi* Traquair.

- Hay, O. P. 1902 A, 352.
 Etheridge, R. 1906 A, 129.
 Traquair, R. H. 1874 A, 211.

Ganorhynchus beecheri Newb.

- Hay, O. P. 1902 A, 352.
 Claypole, E. W. 1903 A, 321.
 Eastman, C. R. 1907 B, 21, 22.
 1908 A, 213, 288.
 Upper Devonian (Chemung, Catskill); Pennsylvania.

Ganorhynchus oblongus Cope.

- Hay, O. P. 1902 A, 352.
 Hussakof, L. 1908 A, 53, fig. 24.
 Devonian (Catskill); Pennsylvania.

Ganorhynchus sp. indet.

- Eastman, C. R. 1908 A, 213. Upper Devonian (Cedar Valley); Iowa.

PHANEROPLEURIDÆ.

- Hay, O. P. 1902 A, 352.
 Abel, O. 1919 A, 33, fig. 7 (Phaneropleuron).
 Böklen, H. 1887 A, 78 (Phaneropleuron).
 Briquel, P. 1898 A, 14 (Phaneropleuron).
 Goodrich, E. S. 1908 A, 767, fig. 201 (Phaneropleuron).
 1909 A, 265.

- Hoernes, R. 1886 A, 550.
 Jordan, D. S. 1905 A, i, 612; ii, 586 (Phaneropleuron).
 1907 B, 238 (Phaneropleuron).
 1923 A, 110.
 Klatsch, H. 1890 A, 221 ("phaneropleurinen")
 Matthew, W. D. 1907 A, 9 (Phaneropleuron).

- Schlosser, M 1917 A, 133 ("phaneropleuriden").
 Traquair, R. H. 1871 A, 534 (Phaneropleurini)
 1872 A, 41, fig (Phaneropleuron)

- Traquair, R. H. 1893 C, 265.
 Zittel and Koken 1911 A, 74.
 Zittel and Schlosser 1923 A, 81.

SCAUMENACIA Traquair. Type *S. cura* (Whiteaves).

- Hay, O P 1902 A, 353
 Abel, O 1919 A, 33, 180, fig. 7
 1921 A, 249
 Clark, J. M 1911 A, 128
 Dean, B. 1907 A, 48.
 Eastman, C R 1908 A, 235.
 Goodrich, E. S 1904 A, 503.
 1909 A, 233, 255, fig. 227.
 Gregory, W. K 1915 D, 323.
 Hussakof, L. 1912 B, 134
 Lambe, L. M 1904 C, 16
 Matthews, G F. 1907 A, 9 (Phaneropleuron).
 Petronievics, B 1919 A, 412
 Schmalhausen, J J 1913 B, 757.
 1913 C.
 Stensio, E A. 1925 A, 182
 1925 B, 162
 Traquair, R H 1900 C, 506.
 Watson, D. M S. 1916 B, 33.
 Watson and Day 1916 A, 39
 Watson and Gill 1923 A, 212
 Whiteaves, J. F 1907 B, 252
 Zittel and Schlosser 1923 A, 81

Scaumenacia curta (Whiteaves).

- Hay, O P. 1902 A, 353
 Abel, O. 1912 F, 636, fig. 470.
 1919 A, 179, figs. 7, 137.
 1920 A, 240, fig. 539.
 Clarke, J M. 1913 A, 113
 Claypole, E W. 1893 C, 278 (Phaneropleuron)
 Eastman, C R 1907 B, 17.
 1908 A, 213, 235, 290, fig 35.
 1917 A, 247, fig 2.
 Gregory, W K 1915 D, 323, fig. 1.
 Hussakof, L 1912 B, 134, pls. ii, iii; text-figs. 3-6
 Hussakof and Bryant 1919 A, 171, pl. lvu, figs. 3, 4; text-fig 57.
 Lambe, L. M 1904 C, 34, 42
 1912 A, 5.
 Matthew, G F 1907 A, 9 (Phaneropleuron)
 Pompeck, J F 1913 A, 1134, fig 40.
 Traquair, R H 1900 C, 506.
 Whiteaves, J F 1907 B, 253, pl. iii.
 Zittel and Schlosser 1923 A, 81, fig. 128.
 Upper Devonian (Scaumenac); Quebec.

CTENOPLURON Matthew. Type *C. nerepisense* Matthew, G. F.

- Matthew, G F 1907 A, 7.
 Stromer, E 1920 A, 11.
 Woodward, A S. 1915 B, lxii.

Ctenopleuron nerepisense Matthew, G. F.

- Matthew, G F 1907 A, 7, plate.
 Kner, J 1924 A, 124, 134.
 Woodward, A S 1910 D, 31
 Silurian (Clinton); New Brunswick.

Order CERATODONTOMORPHI, new name.

- Hay, O P 1902 A, 353 (Sirenoidea).
 Agar, W E 1906 A (Lepidosiren).
 1907 A (Lepidosiren)
 Arlitt, T. 1907 D, 632 (Sirenoidea).
 Bischoff, T L W. 1840 B, 116, pls. vi-x (Lepidosiren).
 Carus, V 1875 A, 594 (Sirenoidea).
 Cope, E D 1891 N, 14 (Sirenoidea)
 Eastman, C R 1906 D, 20 ("sirenoidea")
 1907 B, 23, 234 (Sirenoidea).
 1908 A, 69 (Sirenoidea)
 Edwards, A M 1840 A, 159 (Lepidosiren).
 Gill, T 1909 B, 838 (Sirenoidea).
 Gregory, W K 1907 D, 447 (Sirenoidea).

- Jordan, D S 1905 A, i, 612, 613 (Sirenoidea)
 1907 B, 238, 239, 760 (Sirenoidea)
 1923 A, 110 (Sirenoidea)
 Kerr, J. G 1901 B, 1 (Lepidosiren)
 1902 A, 417 (Lepidosiren).
 Kingsley, J. S 1835 B, 300 (Dipneumons).
 Lonnberg, E. 1902 A (Lepidosiren)
 Owen, R. 1839 C, 327, pls. xxv-xxvii (Lepidosiren)
 Reynolds, S H. 1897 A, 24, 70 (Sirenoidea).
 Stemmann, G 1907 A, 407 (Sirenoidea).
 Traquair, R. H. 1878 A, 12 (Sirenoidea).
 Wallace, A R 1876 A, ii, 458 (Sirenoidea).
 Woodward, A S 1923 C, 77 (Sirenoidea)
 Zittel and Woodward 1902 A, 64 (Sirenoidea).

CTENODONTIDÆ.

- Hay, O. P. 1902 A, 353
 Arlitt, T. 1912 A, 648, 653.
 1923 A, 700 ("ctenodontiden")
 Bridge, T. W. 1904 A, 503.
 Cockerell, T. D. A. 1913 B, 121.
 Cope, E. D. 1891 N, 15
 Eastman, C. R 1907 B, 23.
 1908 A, 210.
 Goodrich, E. S 1909 A, 257.
 Gregory, W. K. 1907 D, 447.

- Jordan, D S 1905 A, i, 613.
 1907 B, 239, 760
 1923 A, 110.
 Pompeck, J. F. 1913 A, 1134
 Schlosser, M. 1917 A, 124 ("ctenodontiden").
 Schmalhausen, J. J 1913 A, 75.
 Zittel and Koken 1911 A, 76, 76.
 Zittel and Schlosser 1923 A, 81.
 Zittel and Woodward 1902 A, 62.

CTENODUS Agassiz. Type *C. cristatus* Agassiz.

- Hay, O P. 1902 A, 353.
 Abel O 1912 F, 491.
 1919 A, 33 181, fig 7.
 Arlitt, T 1907 D, 339.
 1923 A, 701.
 Atthey, T. 1868 C 354
 Barkas, W. J 1874 D, 550.
 Bridge, T W 1897 A, 602
 Case, E C 1908 C, 576.
 1926 B, 196
 Dreeke W 1913 A, 73
 Etheridge, R. 1906 A, 130
 Eastman C. R 1906 A, 132.
 1908 A, 211
 Giebel, C G. 1855 A, 115
 Goodrich, E S 1904 A, 504
 1909 A 239, fig. 209
 Grogory, W. K. 1915 D, 323
 Hussakof, L 1908 C, 312.
 1910 B, 306
 Jackel O. 1902 E, 1078.
 Jordan, D. S 1905 A, 1, 613.
 1907 B, 239
 1919 B 191.
 Kiaer, J 1924 A 93, fig 40.
 Koken, E 1893 B, 252
 Mall L. C 1875 D, 436.
 Moodie R L 1923 B, 297.
 Owen, R 1849 D, 42
 Petronievics, B 1919 A 412
 Pompeck, J. F 1913 A, 1135
- Priem, F. 1908 B, 7
 Ridewood, W. G 1896 A, 388.
 Sewertsoff, A N 1923 B.
 Stromer and Peyer 1926 A, 534.
 1917 A, 38.
 Traquair, R H. 1878 A, 3
 1878 B, 483.
 Watson and Day 1916 A, 31 40 text-fig 8.
 Watson and Gill 1923 A, 163-215, figs 8, 11,
 12, 21-28
 Woodward, A S. 1922 C, 78, fig 79
 1924 A, 114
 Woodward, H 1904 B, 141
 Zittel and Koken 1911 A, 75.
 Zittel and Schlosser 1923 A, 81 fig 139
 Zittel and Woodward 1902 A, 63.
- Ctenodus wagneri Newb.**
 Hay, O P. 1902 A 353.
 Claypole, E W 1903 A, 319
 Eastman C R 1907 B, 19
 1908 A, 212, 213, 285
 Hussakof L 1908 A, 51
 Upper Devonian (Cleveland), Ohio
- Ctenodus sp. indet.**
 Eastman, C. R. 1902 B 97 Pennsylvanian
 (Mazon Creek), Illinois
 1903 B 194 Pennsylvanian (Mazon Creek);
 Illinois

SAGENODUS Owen. Type *S. inaequalis* Owen.

- Hay, O P 1902 A, 353
 Abel O 1919 A 181.
 Atthey, T 1868 C, 357 (Sagenodus)
 Bonn H G 1849 A 649 (Ctenodus)
 Case E C 1926 B, 196
 Cockerell, T D A 1911 C 126.
 1913 B, 121
 Delafontaine, M 1877 A, 268 (Ctenodus)
 Dollo, L 1896 A
 Eastman, C. R 1903 C, 493
 Hussakof L 1911 A, 163
 Jordan D S 1905 A, 1, 613.
 1907 B, 239
 Stromer and Peyer 1917 A, 36
 Watson, D M S 1916 B, 37, pl. m, fig 9.
 Watson and Dav 1916 A, 41.
 Watson and Gill 1923 A, 163-215, figs. 1-12
 14-20
 Zittel and Koken 1911 A, 76.
 Zittel and Schlosser 1923 A, 82.
 Zittel and Woodward 1902 A, 64
Sagenodus copeanus Williston.
 Hay, O P 1902 A, 354.
 Abel O 1919 A, 180, fig 139 (S. copei)
 Eastman C R 1903 B, 186
 Zittel and Schlosser 1923 A, 82, fig. 140 (S.
 copei)
 Zittel and Koken 1911 A, 76, fig 134 (S. copei).
 Pennsylvanian (Missourian); Kansas.
- Sagenodus cristatus Eastman.**
 Eastman, C. R 1903 B, 188, 194, pl m, fig. 30
 Pennsylvanian (Mazon Creek); Illinois.
- Sagenodus dialophus (Cope).**
 Hay, O P. 1902 A, 354
 Beede, J. W. 1907 A 119 (Ctenodus)
 Case, E C 1915 A, 96
 Hussakof, L 1911 A, 163, pl. xxvi, figs 6 7.
 Permian (Wichita, Clear Fork), Texas;
 (Emu), Oklahoma
- Sagenodus foliatus Cope.**
 Hay, O P 1902 A, 354
 Eastman C R. 1902 B, 97
 1902 G, 541.
 1903 B, 194
 Merrill, G P 1907 A, 18
 Pennsylvanian (Mazon Creek), Illinois
- Sagenodus fossatus (Cope).**
 Hay, O P. 1902 A, 354 (S. fossatus, S gurley-
 anus, S porrectus); 355 (S vabasensis).
 Beede, J. W. 1907 A, 119 (Ctenodus)
 Case, E C 1900 A, 705, pl 1, fig 7 (S vaba-
 sensis) fig 8 (S gurleyanus) fig 10 (S. fos-
 satus)
 1915 A, 96
 Cope and Matthew 1915 A, pl m fig 7, 8
 Hussakof, L 1908 A, 54, fig 26 (S porrectus).
 1911 A, 163, pl. xxvi, figs. 8-11, pl. xxvii,
 figs 1-3.
 1916 A, 131 (S. gurleyanus, S porrectus,
 S vabasensis as syns)
 Permian; Illinois.

Sagenodus heterolophus (Cope).

- Hay, O. P. 1902 A, 354.
 Case, E. C. 1900 A, 706
 Hussakof, L. 1911 A, 164, pl. xxvii, fig. 6
 Permian; Illinois

Sagenodus jugosus Hay.

- Hay, O. P. 1902 A, 354. Pennsylvanian, Ohio.

Sagenodus lacovianus Cope.

- Hay, O. P. 1902 A, 354
 Eastman, C. R. 1902 B, 97
 1902 G, 541.
 1903 B, 194
 Pennsylvanian (Mazon Creek); Illinois

Sagenodus occidentalis (Newb. and Worth.).

- Hay, O. P. 1902 A, 354
 Eastman, C. R. 1902 B, 97.
 1902 G, 541
 1903 B, 194
 Merrill, G. P. 1907 A, 18 (S. browniæ); 19 (S. occidentalis)
 Pennsylvanian, Illinois, Ohio

Sagenodus ohioensis (Cope).

- Hay, O. P. 1902 A, 354 (S. ohioensis)
 Hussakof, L. 1916 A, 129, fig. 2 (S. ohioensis)
 Pennsylvanian, Ohio.

Sagenodus paucicristatus (Cope).

- Hay, O. P. 1902 A, 354
 Case, E. C. 1900 A, 707, pl. i, fig. 11.
 1915 A, 96
 Cope and Matthew 1915 A, pl. iii, fig. 9
 Hussakof, L. 1911 A, 164, pl. xxvii, fig. 4
 Pennsylvanian (Upper), Illinois

Sagenodus periprion (Cope).

- Hay, O. P. 1902 A, 354.
 Beede, J. W. 1907 A, 119 (Ctenodus).
 Case, E. C. 1915 A, 96
 Hussakof, L. 1911 A, 165, pl. xxvii, fig. 5.
 Permian (Wichita? Clear Fork?), Texas.

GNATHORHIZA Cope.

- Hay, O. P. 1902 A, 355.
 Case, E. C. 1908 C, 579
 Hussakof, L. 1911 A, 166.

Gnathorhiza pertenuis (Eastman).

- Eastman, C. R. 1903 C, 493, figs. 1, 2 (Sagenodus).
 Broih, F. 1904 A, 105 (Sagenodus).
 Case, E. C. 1908 C, 579 (Sagenodus)
 Eastman, C. R. 1906 D, 8 (Sagenodus).
 Hussakof, L. 1908 A, 53 (Sagenodus Syn? of G. pusilla).
 1911 A, 167 (Syn. of G. pusilla).
 Permian (Cummaron); Texas

Gnathorhiza pusilla (Cope).

- Hay, O. P. 1902 A, 355 (Sagenodus)

Sagenodus quincunciatus Cope.

- Hay, O. P. 1902 A, 355.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Merrill, G. P. 1907 A, 19.
 Pennsylvanian (Mazon Creek), Illinois.

Sagenodus reticulatus (Newb. and Worth.).

- Hay, O. P. 1902 A, 355.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194
 Hussakof, L. 1916 A, 131 ("Ctenodus reticulatus")
 Merrill, G. P. 1907 A, 19 (S. magister, S. reticulatus).
 Pennsylvanian (Mazon Creek); Illinois

Sagenodus serratus (Newb.).

- Hay, O. P. 1902 A, 355
 Hussakof, L. 1908 A, 54
 1916 A, 130, 131, fig. 5.
 Pennsylvanian; Ohio

Sagenodus textilis Hay.

- Hay, O. P. 1902 A, 355
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194
 Merrill, G. P. 1907 A, 18 (S. gurlenianus); 19 (S. textilis)
 Pennsylvanian (Mazon Creek), Illinois

Sagenodus vinslovii (Cope).

- Hay, O. P. 1902 A, 355
 Case, E. C. 1900 A, 703, pl. i, fig. 6
 1915 A, 96
 Cope and Matthew 1915 A, pl. iii, fig. 10
 Hussakof, L. 1911 A, 165, pl. xxvii, figs. 7, 8
 Permian (Wichita? Clear Fork?); Texas:
 Pennsylvanian; Illinois.

Sagenodus sp. indet.

- Case, E. C. 1902 B, 63 Permian; Oklahoma.

Type *G. serrata* Cope.

- Case, E. C. 1900 A, 705, pl. i, fig. 9 (Sagenodus)
 1915 A, 96
 Cope and Matthew 1915 A, pl. iii, fig. 6 (Ctenodus, Gnathorhiza)
 Hussakof, L. 1911 A, 167, pl. xxvii, fig. 10.
 Permian; Illinois, Texas, Oklahoma

Gnathorhiza serrata Cope.

- Hay, O. P. 1902 A, 355
 Beede, J. W. 1907 A, 119
 Hussakof, L. 1908 A, 53, fig. 25.
 1911 A, 167, pl. xxvii, fig. 9 (Syn. of G. pusilla).
 Upper Pennsylvanian; Illinois; Permian (Wichita, Clear Fork), Texas.

Matthew, W. D. 1916 A, 484 (Rhineastes cruciferus).

Osborn, H. F. 1902 I, 11.

Stromer, E. 1906 A, 207.

Cretaceous (Judith River); Montana: Belly River); Alberta.

Ceratodus favosus Cope.

Hay, O P. 1902 A, 356.

Beede, J. W. 1907 A, 119.

Case, E. C. 1915 A, 96.

Hussakof, L. 1908 A, 51, fig. 23.

1911 A, 166, pl. xxiii, fig. 11.

Permian (Wichita, Clear Fork); Texas.

Ceratodus guntheri Marsh.

Hay, O P. 1902 A, 356.

Cockerell, T. D. A. 1908 C, 162.

Gilmore, C. W. 1914 A, 25.

Marsh, O. C. 1878 A, 184, fig.

Mook, C. C. 1916 A, 149 (C. guntheri).

Simpson, G. G. 1926 E, 2.

Upper Jurassic or Lower Cretaceous (Morrison); Colorado.

Ceratodus robustus Knight.

Hay, O P. 1902 A, 356.

Cockerell, T. D. A. 1908 C, 162.

Mook, C. C. 1916 A, 149.

Upper Jurassic or Lower Cretaceous (Morrison); Wyoming.

Ceratodus sp. indet.

Freudenberg, W. 1921 A, 111. Upper Cretaceous; Mexico.

Mook, C. C. 1916 A, 96. Upper Jurassic or Lower Cretaceous (Morrison), Wyoming.

SYNTHETODUS Eastman. Type *S. trisulcatus* Eastman.

Hay, O P. 1902 A, 356.

Eastman, C. R. 1908 A, 231.

1917 A, 246.

Sauvage, H. E. 1899 A, 7.

Synthetodus calvini Eastman.

Eastman, C. R. 1908 A, 213, 233, 287, pl. II, fig. 19, pls. x-vii.

Hussakof and Bryant 1919 A, 15, 17, 150, pl. IV, figs. 1, 2.

Upper Devonian (State Quarry and Sweetland Creek); Iowa: (Genesee); New York.

ACMONIODUS Hussakof and Bryant.

Hussakof and Bryant 1919 A, 151.

Woodward, A. S. 1921 B, 36.

A genus of uncertain position.

Synthetodus trisulcatus Eastman.

Hay, O P. 1902 A, 356.

Eastman, C. R. 1907 B, 20.

1908 A, 213, 231, 286, pls. ix, xi.

Sauvage, H. E. 1899 A, 7.

Upper Devonian (State Quarry and Sweetland Creek); Iowa.

Type *A. clarkei* Hussakof and Bryant.

Acmoniodus clarkei Hussakof and Bryant.

Hussakof and Bryant 1919 A, 13, 151, pl. IV, fig. 3, text-fig. 53.

Upper Devonian (Genesee); New York.

Subclass CROSSOPTERYGIA Cope.

When the authors quoted use the masculine plural ending this is indicated thus. (-u).

Hay, O. P. 1902 A, 357.

Abel, O. 1919 A, 158, fig. 170.

1920 A, 338 (-u).

1921 A, 214, 247 ("crossopterygier")

1922 F, (-u)

Allis, E. P. 1905 A, 417 (Crossopterygida)

1909 A, 202.

1918 A, 242 (-u).

1919 A, 374 (-u).

1919 B, 73.

1922 A, 150 (-u)

1923 B, 156 (-u).

1926 A, 169 (-u).

Anthony, R. 1912 A ("crossoptérygiens")

1913 A, 269 ("crossoptérygiens").

Arlt, T. 1907 D, 648.

1923 A, 491 ("crossopterygier").

Bardeleben, K. 1896 A, 113 ("crossopterygier").

1901 A, 70 ("crossopterygier").

1907 A, 36 ("crossopterygier").

Barrell, J. 1915 B, 402, 406 (-u).

Bender, O. 1907 A, 39 ("crossopterygier")

Bender, O. 1910 A, 122 ("crossopterygier")

Boas, J. E. V. 1914 B, 542 ("crossopterygier").

Boulenger, G. A. 1901 D, 2 (-u).

1917 C, 458 ("crossoptérygiens").

Braus, H. 1901 B, 209, 244 ("crossopterygier")

1904 A, 411 ("crossopterygier").

Bridge, T. W. 1878 A, 723 (-u).

1904 A, 476, 737 (-u).

Broom, R. 1913 B, 465 ("crossopterygiens").

Bryant, W. L. 1919 A, 4, 22 (-u).

Carus, V. 1875 A, 693 (-u).

Case, E. C. 1915 A, 124 ("crossopterygiens").

Chamberlin, T. C. 1900 A, 411 ("crossopterygiens").

Collinge, W. E. 1893 B, 259.

Cope, E. D. 1871 T, 449, 450.

1891 N, 19.

Cunningham, J. T. 1897 A, 497 ("crossopterygiens").

1912 A, 246, 251, 254 (-u).

Dean, B. 1900 A, 8, 29 (-u).

1916 A ("fishes").

Dean, Gudge, Henn 1923 A, 676 (-u).

Dollo, L. 1906 B, 137 ("crossoptérygiens").

- Eastman, C. R. 1901 C, 329 (-n).
 1904 C, 141 ("crossopterygiens")
 1905 A, 54 (-n).
 1907 B, 23, 165 (-n)
 1908 A, 62, 69, 237, 255 (-n).
 1911 A, 20 (-n).
 1916 A, 655 (-n).
 1916 B, 104 (-n).
 1917 A, 244, 270 (-n).
- Eastman and Barbour 1902 A, 267 ("crossopterygiens").
- Eimer, G. H. T. 1901 A, 254 ("crossopterygiens").
- Emery, C. 1887 A, 187 ("crossopterygiens")
 1895 A, 226 ("crossopterygiens")
- Fuchs, H. 1907 C, 26 ("crossopterygiens").
- Furbringer, K. 1903 A, 377 ("crossopterygiens").
- Furbringer M. 1902 A, 198 ("crossopterygiens").
- Gadow, H. 1902 B, 359 (-n).
- Gill, T. 1898 A, 697 ("crossopterygiens").
 1905 A, 658 (-n).
 1909 B, 838 (-n)
- Goodrich E. S. 1904 A, 499 (-n).
 1908 A, 765 (-n).
 1908 B, 546 (-n).
 1909 A, 280 (Osteolepidoti).
- Gregory, W. K. 1907 D, 447, 456 (-n).
 1911 A, 509 ("crossopterygiens").
 1911 B, 892 ("crossopterygiens")
 1912 D, 220 (-n).
 1913 D, 806, 807 (-n).
 1914 C, 267 (-n).
 1915 D, 318, 325, 353 (-n)
 1920 A, 219 (-n).
 1922 A, 10 ("crossopterygiens").
 1927 G, 267 ("crossopterygiens").
- Hase, A. 1907 A, 653 ("crossopterygiens").
- Haswell, W. A. 1884 A, 80 ("crossopterygiens").
- Hertwig O. 1879 A lxxx (Polypterus).
- Hilzheimer, M. 1913 A, 472 ("crossopterygiens").
- Hoernes, R. 1866 A, 550 (-n).
- Hubbs, C. L. 1919 A, 670 (Amphibioides, part).
- Husakov L. 1906 A, 124 ("crossopterygiens")
- Huxley, T. H. 1861 D, 442, 444 (Crossopterygidae).
 1866 B, 23 (Crossopterygidae).
 1876 E, 112 (-n); p. 121 (Crossopterygidae).
- Jacobshagen, E. 1920 A, 90 ("crossopterygiens").
- Jaekel, O. 1902 A, 108 ("crossopterygiens").
 1909 A, 198 ("crossopterygiens").
 1911 A, 69, 75 (-n)
- Jordan, D. S. 1903 A, 136 ("crossopterygiens")
 1905 A, i, 598; ii, 565 (-n).
 1907 B, 224, 759 (-n).
 1923 A, 108 (-n).
- Kellicott, W. E. 1905 A, 137 (-n).
- Kerr, J. G. 1900 A, 233.
 1901 A, 694 ("crossopterygiens").
 1908 B, 170 ("crossopterygiens").
 1910 A, 203 ("crossopterygiens").
 1923 A, 108 (-n).
- Keyes, C. A. 1922 A, pl. iii.
- Klaer, J. 1924 A, 92, 111, 116 (-n).
- Kingsley, J. S. 1885 A, 95 (-n).
 1901 B, 338 (-n).
 1925 A, 100 (-n)
- Koken, E. 1893 B, 351 ("crossopterygiens")
- Lakjer, T. 1927 A ("crossopterygiens").
- Lemms and Ludwig 1883 A, 776 (-n)
- Lonnberg, E. 1901 A (Crossopterygidae)
- Lubosch, W. 1911 B, 748 ("crossopterygiens").
- Lutken, C. 1868 C (Crossopteri).
 1871 A, 290 ("crossoptères").
- Lull, R. S. 1917 B, 486 (-n).
- Luther, A. 1913 B, 10, 18, 51 (-n).
- Meek, A. 1916 A, 48, 54 (-n)
- Mollier, S. 1897 A, 3 ("crossopterygiens").
- Moodie, R. L. 1913 A, 183 ("crossopterygiens")
 1915 G, 371.
 1915 H, 637, 641.
 1926 A, 83.
- Nauck, E. T. 1926 B, 70 ("crossopterygiens").
- Osborn, H. F. 1916 E, 601 (-n)
 1917 B, 174, 186
- Oswald, F. 1911 A, 409
- Parker and Haswell 1897 A, 202 (-n)
- Pehrson, T. 1922 A ("crossopterygiens").
- Pompeckj, J. F. 1913 A, 1135 (-n)
- Pruem, F. 1908 B, 5 ("crossopterygiens").
- Rabl, C. 1901 A, 489 ("crossopterygiens").
- Rauther M. 1913 A, 1099 (-n)
- Regan, C. T. 1904 A, 330, 331, 336 (-n).
 1908 D, 47 ("crossopterygiens").
 1909 B, 76 (-n).
- Reynolds, S. H. 1897 A, 33, 67, 68, 116.
- Romer, A. S. 1924 A, 121 (-n)
- Roén, N. 1916 A, 15, 30 (-n)
- Ryder, J. 1885 E, 96.
 1886 A, 74, 77 (-n)
- Sagemehl, M. 1884 A, 20 ("crossopterygiens")
- Schaumsland, H. 1906 A, 455 ("crossopterygiens").
- Schlösser, M. 1917 A, 133, 138, 147 ("crossopterygiens")
- Schmalhausen, J. J. 1913 A, 18 ("crossopterygiens")
 1913 B, 757 ("crossopterygiens").
 1913 C (-n)
 1916 B, 147 (-n).
 1917 A, 110
- Schuchert, C. 1915 A, 690 (-n)
- Seupm, H. 1896 A, 153, 180 (-n)
- Semon, R. 1901 A, 180 ("crossopterygiens")
 1901 B, 130 ("crossopterygiens").
- Sewertzoff, A. N. 1923 B (-n).
 1924 A, 551-580, figs i-xiv (Polypterus).
 1926 A, 508
 1926 C, 42 (-n)
 1926 D, 76 (-n).
 1926 E, 552 ("crossopterygiens").
 1926 F, 274 (-n).
- Shitkov, B. M. 1899 A, 256 ("crossopterygiens")
- Smith, G. E. 1912 A, 427 (-n).
- Steinmann, G. 1907 A, 408 (-n).
 1927 A, 76 ("crossopterygiens")
- Stensiö, E. A. 1918 A, 117 ("crossopterygiens")
 1921 A, 43 (-n).
 1922 A, 1241 ("crossopterygiens").
 1925 A, 131.
 1925 B, 161, 187 (-n).
- Stromer, E. 1905 C, 184 (-n)
 1912 A, 29 (-n).
 1920 A, 12, 15 (-n).
 1925 B, 355, 364 (-n).
- Sushkin, P. P. 1910 A, 250 (-n)

- Sushkin, P. P. 1927 A, 204 (-ii).
 Thevenin, A. 1910 A, 35 ("crossopterygiens").
 Traquair, R. H. 1870 A, 179 ("crossopterygiens").
 1877 B, 8 (-ii).
 1880 A, 157 (Crossopterygidae).
 1900 C, 505 (-ii).
 1905 A, 85 (-ii).
 Versluys, J. 1912 B, 552 ("crossopterygier").
 Vogel, R. 1909 A, 501 ("crossopterygier").
 Watson, D. M. S. 1912 A ("crossopterygiens").
 1913 D, 26 (-ii).
 Watson and Day 1916 A, 21 ("crossopterygiens").
- Wintrebert, P. 1910 B, 78 ("crossoptérygiens").
 Woodward, A. S. 1906 A, 313 (-ii).
 1906 C, 273.
 1909 A, 324 ("crossopterygiens").
 1910 B, 464 ("crossopterygiens").
 Woodward, H. 1878 A, 22 (Crossopterygidae).
 1915 B, lxxi.
 1922 B, 27.
 1922 C, 82 (-ii).
 1924 A, 116 (-ii).
 Zittel and Koken 1911 A, 85 (-ii).
 Zittel and Schlosser 1923 A, 84 (-ii).
 Zittel and Woodward 1902 A, 69 (-ii).

Order RHIPIDISTIA Cope.

- Hay, O. P. 1902 A, 357.
 Allis, E. P. 1919 A, 377.
 Case, E. C. 1924 B, 7.
 Cope, E. D. 1891 N, 19.
 Eastman, C. R. 1907 B, 23.
 1908 A, 69.
 Goodrich, E. S. 1909 A, 224.
 Gregory, W. K. 1915 D, 326.
 Gregory and Adams 1915 A, 763.
 Jaekel, O. 1911 A, 75 (Holoptychu).
 Jordan, D. S. 1905 A, 1, 602.
- Jordan, D. S. 1907 B, 228, 760.
 1923 A, 108.
 Osborn, H. F. 1916 E, 608, fig. 18.
 Scupin, H. 1896 A, 154, 181 (Cyclodipterini).
 Stensio, E. A. 1918 A, 116.
 1921 A, 129, 131, 140, 147.
 1922 A, 1259, 1267 ("rhipidistids").
 1925 A, 69, 91 ("rhipidistids").
 Sewertsoff, A. N. 1923 B.
 Watson, D. M. S. 1917 B, 49.
 Watson and Day 1916 A, 26.

Suborder OSTEOLEPIDIFORMES, new name.

- Boulenger, G. A. 1901 D, 2 (Osteolepida).
 Bridge, T. W. 1904 A, 477 (Osteolepida).
 Dean, Gudger, Henn 1923 A, 622 (Osteolepida).
 Gregory, W. K. 1907 D, 448 (Osteolepida).
 1912 D, 220 (Osteolepida).
- Huene, F. 1926 A, 261 ("osteolepiden").
 Jaekel O. 1911 A, 79 (Osteolepida), 76 (Onychodonti).
 Sewertsoff, A. N. 1923 B, 118 (Osteolepidae).

HOLOPTYCHIDÆ Owen.

- Owen, R. 1860 E, 132 (Holoptychidæ).
 Hay, O. P. 1902 A, 358.
 Abel, O. 1919 A, 163.
 Arltdt, T. 1912 A, 648, 658.
 1923 A, 491 ("holoptychiden").
 Barrell, J. 1915 B, 393.
 Bridge, T. W. 1904 A, 479, 743 (Holoptychidæ).
 Clarke, J. M. 1895 A, 121.
 Dean, Gudger, Henn 1923 A, 622.
 Eastman, C. R. 1907 B, 23, 165.
 1908 A, 238.
 1917 A, 237.
 Goodrich, E. S. 1904 A, 501.
 1909 A, 284.
 Gregory, W. K. 1907 D, 448.
 1915 D, 355.
- Jordan D. S. 1905 A, 1, 603, 11 575.
 1907 B, 229.
 1922 A, 108.
 Lütken, C. 1871 A, 290 ("cyclodiptériens").
 Pompeckj, J. F. 1913 A, 1135, 1136.
 Rohon, J. V. 1889 A, 13 (Rhombodipterini).
 Schlosser, M. 1917 A, 133 ("holoptychiden").
 Sewertsoff, A. N. 1923 B, 119.
 Stensio, E. A. 1918 A, 117.
 Stromer, E. 1905 H, 216.
 Terra, P. 1911 A, 206 (Holoptychidæ).
 Traquair, R. H. 1900 C, 505.
 Watson and Day 1916 A, 26 (Holoptychidæ).
 Zittel and Koken 1911 A, 85.
 Zittel and Schlosser 1923 A, 84.
 Zittel and Woodward 1902 A, 69.

HOLOPTYCHIUS Agassiz. Type *H. nobilissimus* Agassiz.

- Hay, O. P. 1902 A, 358.
 Abel, O. 1919 A, 164, figs. 116, 120.
 1921 A, 248, fig. 80.
 Agassiz, L. 1839 A, 599, pl. n, figs. 1-4, 8 (Holoptychus).
 1844 C, 209.
 1877 A, 124 (Holoptichus).
 Barkas, W. J. 1874 D, 551.
 Braus, H. 1901 B, 231, fig. 20.
 Bridge, T. W. 1904 A, 479, 743, fig. 277.
 Bronn, H. G. 1848 A, 594.
 1849 A, 634.
- Bryant, W. L. 1919 A, 8.
 Claypole, E. W. 1883 C, 281.
 Cunningham, J. T. 1912 A, 254, fig. 23.
 Darton, N. H. 1906 A, 563.
 Davies, W. 1863 A, 135.
 Deecke, W. 1913 A, 88.
 Eastman, C. R. 1908 A, 239.
 1908 B, 166.
 Egerton, P. G. 1852 C, 6 L, 5.
 Eichwald, E. 1840 A, 78 (Holoptychus).
 Frech, F. 1897 A, 82, 123.
 Giebel, C. G. 1855 A, 113.

- Goodrich, E. S. 1908 A, 765.
1909 A, 281, 284, figs
- Gregory, W. K. 1915 D, 329.
1920 A, 219.
- Heckel, J. 1851 A, 221.
- Heilprin, A. 1887 A, 149, 301.
- Hoernes, R. 1886 A, 551.
- Hussakof, L. 1906 A, 143.
- Huxley, T. H. 1861 D, 425, fig. 4 ("ganoids")
- Jordan, D. S. 1919 B, 194 (Holoptychus)
- Klaatsch, H. 1890 A, 221.
- Knipe, H. R. 1912 A, 40, fig. 40.
- Lutken, C. 1868 C, 55, fig. 8.
- Mantell, G. A. 1844 A, 653.
- Miall, L. C. 1872 A, 28, 40.
- Miller, H. 1857 A, 247, figs. 99, 100.
- Moodie, R. L. 1926 A, 67, 83, 94, pl. xi
- Murchison, R. I. 1854 A, 245, pl. xxxvi figs. 9-13.
- Osborn, H. F. 1916 E, 606, fig. 14.
1917 B, 170, fig.
- Owen, R. 1866 A, 378.
- Pelrson, T. 1922 A, 57.
- Pompeck, J. F. 1913 A, 1136, fig. 42
- Regan, C. T. 1904 A, 339.
- Reynolds, S. H. 1897 A, 105.
- Schmalhausen, J. J. 1913 A, 75.
- Schuchert and Levene 1927 A, 266, fig.
- Seepin, H. 1896 A, 154.
- Sewertzoff, A. N. 1924 A, 579.
1926 A, 523.
- Traquair, R. H. 1880 A, 156
1898 B, 46
- Watson, D. M. S. 1912 B, 586
1913 F, 957
1916 B, 2, pl. ii, fig. 7; text-fig. 1
1925 A, 821, 823
- Watson and Day 1916 A, 2, 21, pl. ii, fig. 7;
text-fig. 1.
- Woodward, A. S. 1890 F, 147.
1900 H, 1.
1906 C, 273, fig. 6.
1913 B, 82, pl. x, figs. 1, 2.
1915 B, lxxi
1921 A, 181.
1922 B, 28, fig. 1.
1922 C, 82, figs. 85, 86.
- Young, J. 1866 C, 317.
- Zittel and Koken 1911 A, 86.
- Zittel and Schlosser 1923 A, 85, figs. 143, 144.
- Holoptychius americanus** Leidy.
- Hay, O. P. 1902 A, 358.
- Claypole, E. W. 1883 B, 531.
1883 C, 279
1903 A, 319
- Clarke and Ruedemann 1903 A, 767.
- Eastman, C. R. 1904 B, 258.
1907 B, 21, 22, 167, 230.
1908 A, 239, 288, 290.
- Hussakof, L. 1908 A, 55.
- Hussakof and Bryant 1919 A, 175.
- White, I. C. 1883 A, 459.
Upper Devonian (Catskill); Pennsylvania.
(Chemung), New York. Devonian; Colorado.

Holoptychius filiosus Cope.

- Hay, O. P. 1902 A, 358.
- Eastman, C. R. 1907 B, 21, 168
1908 A, 239, 288
- Hussakof, L. 1908 A, 56.
Upper Devonian (Chemung); Pennsylvania.

Holoptychius flabellatus Cope.

- Hay, O. P. 1902 A, 358
- Eastman, C. R. 1908 A, 239.
1908 B, 168
- Merrill, G. P. 1907 A, 12
Upper Devonian (Catskill); Pennsylvania

Holoptychius giganteus Agassiz.

- Agassiz, L. 1843 B (1835) ii, pt. 1, 175, pl. xix,
fig. 13 (Gyrolepis).
- Unless otherwise indicated, the authors, as
quoted, apply to this species the name *H.*
nobilissimus but it is antedated by *giganteus*
Agassiz L. 1839 A, 600, pl. ii, bis, figs. 1, 2
1844 B, 72, pl. xxii fig. 2 (H. murchisoni).
- Cross, W. 1905 C, 4 ("Holoptychius." This
species")
- Eichwald E. 1860 A, 1572
- Hussakof and Bryant 1919 A, 175 (H. gigan-
teus) 176 (H. nobilissimus)
- Lohest, M. 1888 A, 127, 139 (H. nob.); 134, pl.
i, fig. 5, pl. ii, figs. 1-4, pl. iii, figs. 1, 3, 5,
6 pl. v figs. 1-3 (H. devalquei)
- M'Coy, F. 1855 A, 595
- Miller, H. 1841 Old Red Sandst., 162, pl. ix,
fig. 2 (Fide A. S. Woodward)
- Traquair, R. H. 1890 F, 388.
- Woodward, A. S. 1891 A, 323
1900 H, 1, pl. i, figs. 1-10
Upper Devonian, Scotland, Belgium, Russia,
East Greenland. Upper Devonian (Elbert);
Colorado

Holoptychius granulatus Newb.

- Hay, O. P. 1902 A, 358
- Claypole, E. W. 1903 A, 319
- Eastman, C. R. 1907 B, 21, 168
1908 A, 239, 288
- Upper Devonian (Chemung); Pennsylvania.

Holoptychius halli Newb.

- Hay, O. P. 1902 A, 358
- Claypole, E. W. 1903 A, 319 (H. halli).
- Clarke and Ruedemann 1903 A, 767 (H. halli)
- Eastman, C. R. 1907 B, 22, 168.
1908 A, 239, 290
- Hussakof and Bryant 1919 A, 176
Upper Devonian (Catskill), New York.

Holoptychius latus Cope.

- Hay, O. P. 1902 A, 358.
- Eastman, C. R. 1907 B, 168
1908 A, 239.
1908 B, 168.
- Merrill, G. P. 1907 A, p. 12.
Upper Devonian (Catskill), Pennsylvania.

Holoptychius princeps M'Coy.

M'Coy, F 1848 C, 310

Unless otherwise indicated, the following authors call this species *H. giganteus*, but the specific name had been previously applied by Agassiz to another species

Hay, O P 1902 A 358

Claypole E W 1903 A 319 (This species?)

Eastman C R 1904 B, 257, fig. 5.

1907 B, 20 21 22 167

1908 A, 239, 287, 288, 290

1915 A 280

Hussakof, L 1906 A, 150

1908 A, 56 (This species?)

Murchison, R I 1854 A, pl. xxxvi, fig. 11

Upper Devonian (Chemung, Catskill); New York Pennsylvania (Elbert); Colorado Europe?)

Holoptychius? pustulosus Newb.

Hay O P 1902 A 358

Claypole E W. 1903 A, 319 (This species?).

Eastman C R 1907 B, 22, 168

1908 A, 239, 288.

Hussakof, L. 1908 A. 56 (This genus?)

Upper Devonian (Chemung), Pennsylvania

Holoptychius radiatus Newb.

Hay O P 1902 A 359

Claypole E W. 1903 A, 319 (This species?)

Eastman, C R 1907 B, 22

1908 A 290

Hussakof, L 1908 A, 56

Upper Devonian (Catskill), Pennsylvania

Holoptychius scheii Kiaer.

Kiaer, J 1915 A 44, 47, pl. viii, figs. 3, 4.

Upper Devonian?, Ellesmere Land

Holoptychius serrulatus Cope.

Hay, O P. 1902 A, 359

Eastman, C R 1908 A, 239.

1938 B, 168

Hussakof and Bryant 1919 A, 176.

Merrill, G P 1907 A, 12

Upper Devonian (Catskill); Pennsylvania

Holoptychius tuberculatus Newb.

Hay, O P 1902 A, 359

Claypole, E W. 1903 A, 319.

Eastman, C R 1904 B, 258, fig. 6.

1907 B 20, 22, 168

1908 A 239, 287, 289

1915 A, 280

Hussakof, L. 1908 A, 57.

Kiaer J 1915 A 45 (This species?)

Upper Devonian (Chemung), Pennsylvania; Ellesmere Land

Holoptychius sp. indet.

Cross W 1905 C 5 Upper Devonian (Elbert), Colorado.

1910 A 5 Upper Devonian (Elbert), Colorado

Eastman, C R 1907 B, 15 Middle Devonian; New York

1908 A 279 Devonian, Iowa, New York, Greenland

Jordan D S 1907 A 120 Triassic; California.

Lull, R S 1918 A, 361. Devonian, Arizona

Norton, W H 1906 A 356 Middle Devonian (Cedar Valley), Iowa

GLYPTOLEPIS Agassiz. Type *G. leptopterus* Agassiz.

Agassiz, L 1844 B, 61, 62.

Hay O P 1902 A, 358 (Holoptychius, in part)

Abel, O 1919 A 164, fig 121

Agassiz L 1844 B, 62 (in part)

Brown H G 1848 A, 537.

1849 A, 654

Eastman C R 1907 B, 166

1908 A 238

Goodrich E S 1909 A, 285

Hoernes, R 1886 A, 551.

Huxley, T H 1861 D, 426, fig. 7.

Jaekel, O 1909 D, 718, fig 10

1911 A 76, fig 77.

Miller, J 1859 A 31

Nicholson and Lydekker 1889 A, 969

Oswald, F 1911 A, 407, fig. 7

Parker and Haswell 1897 A, 227, fig 850

Powne, J 1862 A, 435.

Seppin, H 1896 A, 155

Sewertsoff A N 1926 D, 90

Watson, D M. S 1916 B, 7, pl. n, fig. 8

Watson and Dav 1916 A, 7, pl. n, fig. 8

Woodward A S 1898 B, 72, 74

Zittel, K A 1890 A, 179.

Zittel and Schlosser 1923 A, 85, fig 8 (Syn. of Holoptychius).

Glyptolepis paucidens (Agassiz).

Agassiz, L 1844 B, 61, 78, pl xxxviii, fig 11 (Platygnaathus)

Kiaer, J 1915 A 45, 55, pl viii, figs 1, 2 (This species?)

Traquair, R H 1888 B, 513

1890 H, 483

Woodward, A S 1891 B, 336 [Holoptychius (Glyptolepis)]

Upper Devonian (Lower Old Red), Orkneys:

Upper Devonian?; Ellesmere Land

Glyptolepis quebecensis Whiteaves.

Hay, O P 1902 A 358 (Holoptychius)

Bryant W L 1919 A, 5, pl xvi, fig 1 (Holoptychius)

Clark J M 1913 A, 115 (Holoptychius).

Claypole, E W 1883 C, 278.

Eastman, C R 1907 B 17 (Holoptychius); 166 (Glyptolepis).

1908 A, 238.

Hussakof and Bryant 1919 A, 174, text-fig. 58

Kiaer J 1915 A 46

Lambe, L. M. 1904 C, 17, 34, 42 (Holoptychius).

Whiteaves, J. F. 1907 B, 253 (Holoptychius).

Upper Devonian (Scaumenac), Quebec.

APEDODUS Leidy. Type *A. priscus* Leidy.

- Hay O. P. 1902 A, 359
 Eastman, C. R. 1907 B, 166 (Syn ? of *Holoptychius*)
 1908 A, 238 (Syn ? of *Holoptychius*)
 Jordan, D. S. 1919 B, 283 (Syn ? of *Dendrodus*).

Apedodus priscus Leidy.

- Hay, O. P. 1902 A, 359.
 C'aspole, E. W. 1903 A, 319.
 Eastman, C. R. 1907 B, 21, 166, 225, pl. 1, figs 1, 2
 1908 A, 238
 Upper Devonian (Chemung), Pennsylvania.

DENDRODUS Owen. Type *D. biporcatus* Owen.

- Hay, O. P. 1902 A, 359
 Agassiz, L. 1843 A (1844)
 Barkas, W. J. 1874 D, 550
 Gebel, C. G. 1855 A, 114.
 Heilprin A. 1887 A, 301
 Hurdev, T. H. 1861 D, 431, 436
 Lohest, M. 1888 A, 116
 Mantell G. A. 1844 A, 653.
 Owen, R. 1845 B 171.
 1866 A, 367, figs 245, 246
 Rose C. 1897 A 49 61
 Rohon, J. V. 1889 B 3 pls i, ii; text-fig ii.

- Stensio, E. A. 1918 A, 116
 Tomes C. S. 1898 C 347
 Traquair, R. H. 1880 A, 149, 157.

Dendrodus arisaigensis Whiteaves.

- Hay, O. P. 1902 A 359
 Eastman, C. R. 1907 B, 13.
 1908 A, 276
 Lambie, L. M. 1904 C, 15, 33, 42.
 1912 A, 3
 Sulman or Lower Devonian (Arisaig), Nova Scotia

ERIPTYCHIUS Walcott. Type *E. americanus* Walcott.

- Hay O. P. 1902 A, 359
 Clarke J. M. 1895 A 121 ("fossil fishes").
 Jordan, D. S. 1905 A, i, 578; ii, 568.
 Stomer, E. 1920 A, 10, 11
 Vaillant L. 1902 A, 1321 ("poissons").
 Walcott C. D. 1891 A, 245 ("fish").

Eriptychius americanus Walcott.

- Hay, O. P. 1902 A, 359
 Cockerell, T. D. A. 1908 C, 162.
 Eastman, C. R. 1907 B, 12
 Jaekel O. 1892 C, 168 ("fish remains").
 1895 D, 162
 Jordan, D. S. 1907 B 229
 Merrill, G. P. 1907 A, 11.
 Ordovician, Colorado.

MEGALICHTHYIDÆ Hay.

Unless otherwise indicated the writers, as cited, use the name *Rhizodontidæ*.

- Hay O. P. 1902 A, 359 (Megalichthyidæ).
 Abel, O. 1919 A 165
 Allen E. P. 1922 A, 149
 Arldt, T. 1912 A 648, 650
 Bridge, T. W. 1904 A, 478
 Dean, Gudger Henn 1923 A, 622.
 Dollo, L. 1896 A, 91.
 Eastman, C. R. 1907 B, 23
 Goodrich E. S. 1904 A, 500
 1909 A, 285.

- Gregory, W. K. 1907 D, 448
 1915 D 326
 Jordan D. S. 1905 A, i, 603, ii, p. 580 (Megalichthyidæ)
 1907 B, 229, 760 (Megalichthyidæ).
 1923 A 108 (Megalichthyidæ).
 Schlosser M. 1917 A, 133 ("rhizodontiden").
 Schmalhausen, J. J. 1913 A, 55.
 Stensio E. A. 1918 A, 117
 Traquair, R. H. 1900 C, 505
 Zittel and Koken 1911 A, 86
 Zittel and Schlosser 1923 A, 85 (Rhizodontidæ).
 Zittel and Woodward 1902 A, 70.

MEGALICHTHYS Agassiz and Hibbert.

- Hay, O. P. 1902 A, 359.
 Agassiz, L. 1835 A, 646 (Megalichthys; description insufficient)
 1835 C, 58.
 1835 D 190
 1844 C, 269
 Bronn, H. G. 1848 A, 709
 Case, E. C. 1917 A, 125 (Rhizodus).
 Connell, A. 1835 A, 302
 1835 B, 191.
 Goodrich, E. S. 1908 A, 755, fig 197.
 Gregory, W. K. 1915 D, 326 (Rhizodus).
 Humphreys, J. 1908 A, 12 (Rhizodus).
 Jordan, D. S. 1919 B, 185.
 1923 A, 108.

Type *M. hibberti* Agassiz and Hibbert.

- Murchison, R. I. 1854 A, 281
 Stevenson J. J. 1907 A 168 (Rhizodus)
 Traquair, R. H. 1878 C, 444 (Rhizodus)
 1878 D, 657 (Rhizodus).
 1880 A, 142, 149 (Rhizodus)
 1908 A, 104 (Rhizodus).
 Watson, D. M. S. 1913 F, 957 (Rhizodus)
 Woodward, A. S. 1890 F, 147 (Rhizodus).
 1911 C, p. 46 (Rhizodus).
 1915 B, lxxv (Rhizodus).
 Young, J. 1866 C, 317 (Rhizodus).
 Zittel and Koken 1911 A, 86 (Rhizodus)
 Zittel and Schlosser 1923 A, 86, fig 146 (Rhizodus).
 Zittel and Woodward 1902 A, 70 (Rhizodus).

OSTEOLEPIDIDÆ Cope.

- (Cope, E. D. 1889 R, 856 (Osteolepididæ).
 Hay, O. P. 1902 A, 361 (Osteolepidæ).
 Abel, O. 1919 A, 161 (Osteolepidæ).
 Allis, E. P. 1919 A, 378 (Osteolepidæ).
 1919 B, 76 (Osteolepidæ).
 Auldt, T. 1907 D, 679 (Rhombodipterini).
 1912 A, 648, 658 (Osteolepidæ).
 1923 A, 491 ("osteolepiden").
 Bridge, T. W. 1904 A, 477 (Osteolepidæ).
 Case, E. C. 1926 B, 196 (Osteolepidæ).
 Dean, Gudgeon, Henn. 1923 A, 401, 622 (Osteolepidæ).
 Dollo, L. 1896 A, 91 (Osteolepidæ).
 Goodrich, E. S. 1904 A, 499 (Osteolepidæ); 500 (Glyptopomidæ).
 1908 A, 760, 765 (Osteolepidæ).
 1909 A, 285 (Glyptopomidæ).
 1919 A, 181 (Osteolepidæ).
 Gregory, W. K. 1912 D, 220 (Osteolepidæ).
 1915 D, 326, 355 (Osteolepidæ).
 Huxley, T. H. 1861 D, 431, 442 (Saurodipteriini).
 Jordan, D. S. 1905 A, i, 603 (Osteolepidæ).
 1907 B, 229, 760 (Osteolepidæ).
 1923 A, 109 (Osteolepidæ).
 Lutken, C. 1871 A, 290 ('rhombodipterini').
 Pompeckj, J. F. 1913 A, 1135, 1136 (Osteolepidæ), 1137 (Glyptopomidæ).
 Rosén, N. 1916 A, 17 ("osteolepidote").
 Schlosser, M. 1917 A, 133 ('osteolepiden').
 Stemmann, G. 1927 A, 77 ('osteolepiden').
 Stensio, E. A. 1918 A, 117 (Osteolepidæ).
 Stromer, E. 1935 H, 216 (Osteolepidæ).
 Sushkin, P. 1927 A, 264 ('osteolepids').
 Traquair, R. H. 1900 C, 505 (Osteolepidæ).
 Watson, D. M. S. 1914 F, 780 ('osteolepids').
 1921 A, 333 ('osteolepids').
 1925 A, 816-868 ('osteolepids').
 1926 A, 195, 243 figs. 1-3 ('osteolepids').
 Watson and Dav. 1923 A, 210 ("osteolepids").
 Zittel and Koken. 1911 A, 87 (Osteolepidæ).
 Zittel and Schlosser. 1923 A, 87 (Osteolepidæ).
 Zittel and Woodward. 1902 A, 71 (Osteolepidæ).

OSTEOLEPIS Valenciennes. Type *O. macrolepidotus* Agassiz.

- Valenciennes, A. 1829, Trans. Geol. Soc. Lond. (2), iii, 144.
 Abel, O. 1919 A, 162, fig. 118.
 1920 A, 339, fig. 537.
 Agassiz, L. 1833 A, 472.
 Allis, E. P. 1919 B, 75.
 1922 B, 239.
 Bryant, W. L. 1919 A, 6, 8.
 Egerton, P. G. 1852 C, 6 L, 5.
 Gabel, C. G. 1855 A, 113.
 Goodrich, E. S. 1919 A, 181, figs. 1-6.
 1924 A, 935.
 Gregory, W. K. 1913 D, 806.
 1919 B, 422, fig. 1.
 1920 A, 111, 219, figs. 1, 2.
 1922 A, 542, fig. 346.
 Heilmann, A. 1887 A, 149, 301.
 Huxley, T. H. 1861 D, 433, fig. 8.
 Jaekel, O. 1903 F, 37.
 Kner, J. 1915 A, 48, 55.
 Kingsley, J. S. 1925 A, 103, fig. 110.
 Knaatsch, H. 1890 A, 144, 220.
 Milne, H. 1851 A, 91.
 Osborn, H. F. 1916 E, 605, fig. 14.
 1917 B, 170, fig.
 Pichson, T. 1922 A, 52.
 Pompeckj, J. F. 1920 A, 110.
 Rohon, J. V. 1889 A, 13, pl. n.
 Scapin, H. 1896 A, 153, pl. xv, fig. 1.
 Stemmann, G. 1907 A, 409, fig. 715.
 Stensio, E. A. 1921 A, 133.
 1922 A, 1258.
 Traquair, R. H. 1880 A, 150, 151.
 Watson, D. M. S. 1916 B, 20, text-fig. 5.
 1921 A, 334.
 1925 B, 385, fig. 1.
 1926 A, 205, 242.
 Watson and Dav. 1916 A, 20, text-fig. 5.
 Woodward, A. S. 1891 A, 368.
 1922 B, 28.
 Zittel and Schlosser. 1923 A, 87, fig. 148.
Osteolepis sp. indet.
 Kner, J. 1915 A, 48. Upper Devonian, Ellensberg Land.

PARABATRACHUS Owen. Type *P. colei* Owen.

- Hay, O. P. 1902 A, 362.
 Baedeleben, K. 1907 A, 36 (Megalechthys).
 Baikas, T. P. 1869 A, 43 (Parabatrachus, Megalechthys).
 Broom, H. G. 1849 A, 661 (Megalechthys).
 Broom, R. 1913 H, 77 (Megalechthys).
 Case, E. C. 1908 C, 579 (Ectosteorhachis).
 Dav. H. 1915 A, 430 (Megalechthys).
 Gregory, W. K. 1913 D, 805 (Ectosteorhachis, Megalechthys).
 1915 D, 326, fig. 7 (Megalechthys).
 Humphreys, J. 1908 A, 13 (Megalechthys).
 Huxsakov, L. 1911 A, 168 (Megalechthys).
 Huxley, T. H. 1861 D, 433 (Megalechthys).
 Jordan, D. S. 1905 A, i, 604.
 1907 B, 230.
 1919 B, 254.
 Lakjer, T. 1927 A, 210 (Megalechthys).
 M. Cov. F. 1848 A, 3 (Centrodus; not of Giebel, 1847).
 Owen, R. 1845 B, 76 (Megalechthys).
 1876 E, 45.
 Rosén, N. 1916 A, 16, fig. 8 (Megalechthys).
 Schlosser, M. 1917 A, 133.
 Stensio, E. A. 1921 A, 131 (Megalechthys).
 Sushkin, P. P. 1927 A, 265, 280, fig. 2 (Megalechthys).
 Watson, D. M. S. 1912 A, 5 (Megalechthys).
 1913 F, 957 (Megalechthys).
 1921 A, 334 (Megalechthys).
 1926 A, 242, 245, figs. 32, 33, 36-39 (Megalechthys).
 Woodward, A. S. 1911 C, 46 (Megalechthys).
 1915 B, lxxi (Megalechthys).
 1924 A, 116, fig. 8.
 Zittel and Schlosser. 1923 A, 87 (Megalechthys).
 Zittel and Woodward. 1902 A, 71 (Megalechthys).

Parabatrachus ciceronius (Cope).

- Hay, O. P. 1902 A, 362
 Beede, J. W. 1907 A, 119
 Case, E. C. 1915 A, 96 (Megalichthys).
 Hussakof, L. 1911 A, 169 (Megalichthys)
 Permian (Wichita? Clear Fork?); Texas

Parabatrachus macropomus (Cope).

- Hay, O. P. 1902 A, 362.
 Eastman, C. R. 1903 B, 187 (Megalichthys)
 Merrill, G. P. 1907 A, 13 (Megalichthys).
 Pennsylvanian; Kansas

Parabatrachus maxillaris (Agassiz).

- Hay, O. P. 1902 A, 362
 Etheridge, R. 1878 A, 269 (Megalichthys hubberti)

- Goodrich, E. S. 1909 A, 217, fig. 190 (Megalichthys hubberti).
 Lambe, L. M. 1904 C, 19, 35, 43.
 Pennsylvanian; Nova Scotia

Parabatrachus nitidus (Cope).

- Hay, O. P. 1902 A, 362
 Beede, J. W. 1907 A, 119
 Case, E. C. 1915 A, 96 (Megalichthys)
 Cope and Matthew 1915 A, pl. 1 (Ectosteohachis, Megalichthys=Palaeobatrachus)
 Gregoir, W. K. 1915 D, 360 (Megalichthys)
 Hussakof, L. 1908 A, 58.
 1911 A, 169, pl. xxx, figs. 1-4; pl. xxxi, fig. 3, text-fig. 53 (Megalichthys)
 Permian (Wichita); Texas

GLYPTOPOMUS Agassiz.

- Hay, O. P. 1902 A, 362.
 Abel, O. 1919 A, 53, fig. 26.
 Allis, E. P. 1919 B, 76.
 1922 B, 239
 Bryant, W. L. 1919 A, 8.
 Goodrich, E. S. 1904 A, 500.
 1909 A, 510, figs.
 Huxley, T. H. 1859 E, 444
 1861 D, 424, fig. 4.
 1866 B, 20, pl. 1
 Pompeckj, J. F. 1913 A, 1136.
 Roëen, N. 1916 A, 17
 Stensio, E. A. 1918 A, 120
 1921 A, 133
 Suchkin, P. P. 1927 A, 264

Type *G. minor* Agassiz.

- Watson, D. M. S. 1916 B, 8, pl. 1, figs. 4, 5;
 text-fig. 2
 Watson and Dav. 1916 A, 8, 21, pl. 1, figs. 4, 5;
 text-fig. 2.
 Woodward, A. S. 1890 F, 147
 Zittel and Koken 1911 A, 87.
 Zittel and Schlosser 1923 A, 87

Glyptopomus sayrei Newb.

- Hay, O. P. 1902 A, 362.
 Claypole, E. W. 1903 A, 320
 Eastman, C. R. 1907 B, 22
 1908 A, 290
 Upper Devonian (Catskill); Pennsylvania

SPERMATODUS Cope. Type *S. pustulosus* Cope.

- Cope, E. D. 1894 F, 438.
 Hay, O. P. 1902 A, 795.
 Hussakof, L. 1911 A, 172
 The systematic position of this genus is extremely doubtful

Spermatodus pustulosus Cope.

- Cope, E. D. 1894 F, 438, text-fig. 4
 Hay, O. P. 1902 A, 795.
 Case, E. C. 1915 A, 96
 Hussakof, L. 1908 A, 101
 1911 A, 172, pl. xxxii.
 Permian (Wichita? Clear Fork?); Texas.

ONYCHODONTIDÆ Woodward.

- Hay, O. P. 1902 A, 362.
 Abel, O. 1919 A, 166
 Eastman, C. R. 1907 B, 23, 168
 1908 A, 240
 Goodrich, E. S. 1909 A, 286.

- Jordan, D. S. 1907 B, 230, 760.
 1923 A, 109
 Zittel and Koken 1911 A, 87
 Zittel and Schlosser 1923 A, 87 (Onychodontidæ).

ONYCHODUS Newberry. Type *O. sigmoides* Newb.

- Hay, O. P. 1902 A, 363
 Barkas, W. J. 1874 D, 551.
 Bryant, W. L. 1919 A, 11.
 Claypole, E. W. 1903 A, 312.
 Eastman, C. R. 1902 B, 157.
 1907 B, 164, 168, 193, 232
 1908 A, 240.
 Hussakof and Bryant 1919 A, 178.
 Jaekel, O. 1900 A, 145
 1906 B, 76
 1927 B, 338.
 Newberry, J. S. 1870 E, 18.
 1873 G, 145.

- Norton, W. H. 1906 A, 357.
 Storms, R. 1891 A, 143, 145
 Traquair, R. H. 1898 A, 68
 Weller, S. 1902 A, 427, 429
 Woodward, A. S. 1889 K, 407.
 1890 F, 147
Onychodus hopkinsi Newb.
 Hay, O. P. 1902 A, 363 (*O. sigmoides*, in part).
 Claypole, E. W. 1903 A, 320
 Eastman, C. R. 1907 B, 169, 230, pl. iii, fig. 3.
 1908 A, 241, pl. i, fig. 3.
 Upper Devonian (Chemung, Marcellus); New York.

Onychodus orton Newb.

- Hay, O P. 1902 A, 363.
 Claypole, E. W. 1896 B, 353.
 1903 A, 320
 Eastman, C R. 1907 B, 19.
 1908 A, 285.
 Zittel and Koken 1911 A, 88, fig 157.
 Zittel and Schlosser 1923 A, 88, fig. 151.
 Upper Devonian (Huron); Ohio.

Onychodus sigmoides Newb.

- Hay, O. P. 1902 A, 363.
 Arey, M. F. 1906 A, 425, fig. 48.
 Branson, E. B. 1922 A, 35, 164, pl. xxxi, fig. 3.
 Clarke and Luther 1904 A, 42.
 Claypole, C. W. 1903 A, 320
 Cleland, H. F. 1911 A, 157, pl. xlvii, fig 5 (This species?).
 Eastman, C. R. 1907 B, 14, 16, 168, 232, pl. 1, fig. 3.
 1908 A, 240, 279
 Hussakof, L. 1908 A, 57.
 Hussakof and Bryant 1919 A, 10, 15, 17, 178, pl. lviii; text-fig. 59.
 Lambe, L. M. 1904 C, 16, 34, 43.
 1912 A, 4.
 Moodie, R. L. 1926 A, 66
 Newberry, J. S. 1874 H, 192

- Newberry, J. S. 1889 A, 56, pl. xxxiv.
 Orton, E. 1878 A, 610, 625 (O. sigmoides); 636 (O. hopkinsi).
 Stauffer, C. R. 1909 A, 88, 124, 169.
 Whiteaves, J. F. 1877 A, 319.
 Zittel and Koken 1911 A, 88, fig. 156
 Zittel and Schlosser 1923 A, 87, fig 150.
 Upper Devonian (Genesee); New York:
 Middle Devonian (Hamilton); Wisconsin:
 (Callaway); Missouri: (Cedar Valley); Iowa:
 (Columbus and Delaware); Ohio: (Onondaga);
 New York: (Corniferous); Ontario.

Onychodus sp. indet.

- Hay, O P 1902 A, 363.
 Eastman, C. R. 1907 B, 16, 169. Middle Devonian (Cedar Valley); Iowa: pl. iii, fig. 2 (O. sigmoides?); Devonian (Hamilton); New York
 1908 A, 241, 279. Devonian; Wisconsin, New York.
 Lambe, L. M. 1904 C, 34. Devonian (Cuborodes), Manitoba
 Norton W. H. 1906 A, 356. Middle Devonian (Cedar Valley); Iowa.
 Teller, E. E. 1911 A, 271. Devonian (Hamilton); Wisconsin
 Tyrrell, J. B. 1892 A, 209 Upper Devonian, Manitoba.

Order ACTINISTIA Cope.

- Hay, O P 1902 A, 363.
 Cope, E. D. 1871 T, 451.
 1891 N, 19.
 Eastman, C R. 1908 A, 69, 241
 1908 B, 357
 1911 A, 20.

- Goodrich, E. S. 1909 A, 287 (Coelacanthini).
 1913 A, 83 (Coelacanthini).
 Gregory, W. K. 1907 D, 448.
 1920 A, 220
 Jordan, D. S. 1905 A, 1, 602, 604
 1907 B, 228, 230, 760
 Sewertzoff, A. N. 1923 B.

COELACANTHIDÆ King.

- King, W. 1850 A, 235
 Hay, O P. 1902 A, 363.
 Abel, O. 1912 F, 445 456 ("coelacanthiden").
 1919 A, 167.
 Agassiz, L. 1844 D, 142 ("coelacanthos").
 Allis, E. P. 1919 A, 376.
 1922 A, 149.
 1923 A, 41, 51.
 Arlitt, T. 1907 D, 646 (Coelacanthini).
 1912 A, 662, 663.
 1923 A, 491 ("coelacanthiden")
 Boulenger, G. A. 1902 B, 296, 298
 Bridge, T. W. 1904 A, 480.
 Bronn, H. G. 1849 A, 781, seq (Coelacanthi).
 Carus, V. 1875 A, 593 (Coelacanthini).
 Cockerell, T. D. A. 1913 B, 120.
 Cope, E. D. 1891 N, 19.
 Cunningham, J. T. 1912 A, 258
 Dean, Gudger, Henn 1923 A, 460, 551, 622.
 Deecke, W. 1926 A, 194 ("coelacanthiden").
 Eastman, C. R. 1905 B, 101.
 1908 A, 242.
 1911 A, 28, 42
 Egerton, P. G. 1854 A, 369 (Coelacanthi).
 Fitzinger, L. J. 1873 A, 50 (Coelacanthi).
 Goodrich, E. S. 1901 A, 316.
 1904 A, 501 (Coelacanthidæ).

- Goodrich, E. S. 1908 A, 766.
 1909 A, 290.
 Gregory, W. K. 1907 D, 448
 Gunther, A. C. 1872 A, 559 ("coelacanthus")
 Hay, O. P. 1901 B, 72
 Hoernes, R. 1886 A, 551.
 Huxley, T. H. 1861 D, 435, 440, 444 (Coelacanthini)
 1862 A, L ("coelacanthus").
 1866 B, 24, 63 (Coelacanthini).
 Jaekel, O. 1906 B, 76 ("coelacanthiden")
 Jordan, D. S. 1905 A, 1, 605
 1907 B, 760
 1923 A, 109.
 Kuer, J. 1924 A, 111 (Coelacanthini).
 Klaatsch, H. 1890 A, 221 ("coelacanthinen")
 Lutken, C. 1868 C (Coelacanthi).
 1871 A, 291 ("coelacanthiens").
 Owen, R. 1860 E, 131 (Coelacanthi)
 Pehrson, T. 1922 A, 40 ("coelacanthus").
 Pompeckj, J. F. 1913 A, 1135, 1136
 Schlosser, M. 1917 A, 133, 134, 136, 138, 139
 ("coelacanthiden").
 Schmalhausen, J. J. 1913 A, 55.
 Sewertzoff, A. N. 1923 B (Coelacanthini).
 1922 B, 167 ("coelacanthiden").
 Steinmann, G. 1927 A, 12 ("coelacanthiden")

- Stensio, E. A. 1918 A, 120 ("coelacanthids")
 1921 A, 43, 120.
 1922 A, 1259 ("coelacanthids")
 1925 A, 65, 68, 176, 182 ("coelacanthids")
 1925 B, 162, 172
 1927 A, 32
 Stromer, E. 1925 B, 356 (Coelacanthini).
 Traquair, R. H. 1880 A, 158
 1900 C, 505
 1905 A, 85.
 Watson, D. M. S. 1921 A, 333 ("coelacanth")

- Watson, D. M. S. 1925 A, 847, 849 ("coelacanth").
 1926 A, 200, 245 ("coelacanth").
 1927 A, 454 ("coelacanth")
 Whitehouse, R. H. 1910 B, 609
 Woodward, A. S. 1898 A, 78
 1922 B, 28 ("coelacanth")
 1922 C, 83
 Zittel and Koken 1911 A, 88.
 Zittel and Schlosser 1923 A, 88.
 Zittel and Woodward 1902 A, 72
 Zograf, N. 1887 A, 70 (Coelacanthi).

COELACANTHUS Agassiz. Type *C. granulatus* Agassiz.

- Hay O P 1902 A, 363.
 Alessandri, G. 1910 A, 37.
 Arlitt, T. 1923 A, 491.
 Barkas, W. J. 1874 D, 549 (Coelacanthus).
 550 (Conchiopsis)
 Bridge, T. W. 1904 A, 736
 Bronn, H. G. 1848 A, 318.
 1849 A, 655
 Case, E. C. 1917 A, 125
 Cockerell, T. D. A. 1913 B, 121
 Davis, J. W. 1880 C, 60, 67.
 Dean, Gudger, Henn. 1923 A, 461, 622
 Deecke, W. 1913 A, 80.
 Dollo, L. 1896 A, 91
 Dormitzer M. 1852 A, 61.
 Eastman, C. R. 1903 B, 189
 1908 A, 244, 246.
 1908 B, 357.
 1915 B, 440
 1917 A, 270
 Giebel, C. G. 1855 A, 113
 Goodrich E. S. 1908 A, 766
 1909 A, 289
 Heckel, J. J. 1850 A, 362, 365
 Heilmann A. 1887 A, 301, 302.
 Huxley T. H. 1861 D, 435, 437.
 1862 A, 11
 1866 B, 23 pls. II-V.
 Jaekel, O. 1903 A, 119.
 Jordan D. S. 1905 A, II, 604.
 1907 B, 231.
 Lutken, C. 1808 C, 56, fig. 9.
 Osburn, R. C. 1907 A, 425
 Priem, F. 1908 B, 5
 Reis, O. M. 1900 A, 187.
 Stensio, E. A. 1921 A, 44, 120.
 Traquair, R. H. 1880 A, 158.
 1905 A, 85
 Watson, D. M. S. 1921 A, 333
 1926 A, 199, 245.
 Wellburn, E. D. 1901 A, 71.
 1901 B, 161.
 1902 A, 474, fig.
 Woodward, A. S. 1898 G, 529, fig.
 Zittel and Koken 1911 A, 88.
 Zittel and Schlosser 1923 A, 88.
 Zittel and Woodward 1902 A, 72

Coelacanthus banffensis Lambe.

- Lambe, L. M. 1916 B, 38, pl. 1.
 Raymond, P. E. 1925 B, 553
 Triassic? (Upper Banff); Alberta

Coelacanthus elegans Newb.

- Hay, O. P. 1902 A, 364
 Eastman, C. R. 1917 A, 271, pl. ix, figs 5, 6;
 pl. xi, figs 3, 4
 Hussakof, L. 1908 A, 54, pl. iv, fig. 1.
 Hussakof and Bryant 1919 A, 181.
 Jordan, D. S. 1907 B, 230, fig. 164.
 Reis, O. M. 1900 A, 191.
 Pennsylvanian; Ohio

Coelacanthus exiguus Eastman.

- Eastman, C. R. 1902 G, 538, 541, fig. 3.
 Eastman, C. R. 1902 B, 97.
 1903 B, 189, 194, pl. v, fig. 48
 1917 A, 271, pl. x, fig. 1.
 Pennsylvanian (Mazon Creek); Illinois

Coelacanthus ornatus Newb.

- Hay, O. P. 1902 A, 364
 Eastman, C. R. 1917 A, 271.
 Hussakof, L. 1908 A, 54, pl. iv, fig. 2
 Pennsylvanian; Ohio

Coelacanthus robustus Newb.

- Hay O. P. 1902 A, 364.
 Cockerell, T. D. A. 1913 B, 120
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 Pennsylvanian (Illinois); Ohio

Coelacanthus welleri Eastman.

- Eastman, C. R. 1908 B, 358, fig. 1
 Alessandri, G. 1910 A, 37.
 Eastman, C. R. 1908 A, 247, pl. III, fig. 7; text-
 fig. 36.
 1911 A, 44.
 1917 A, 270.

- Van Tuyl, F. M. 1925 A, 55, 62.
 Mississippian (Kinderhook); Iowa.

Coelacanthus sp. indet.

- Eastman, C. R. 1908 C, 255 Mississippian
 (Kinderhook); Iowa

DIPLURUS Newb. Type *D. longicaudatus* Newb.

- Hay, O. P. 1902 A, 364.
 Deecke, W. 1913 A, 74.
 1926 A, 194.

- Eastman, C. R. 1905 B, 101
 1911 A, 21, 44
 Stensio, E. A. 1921 A, 45, 129

Diplurus longicaudatus Newb.

- Hay, O. P. 1902 A, 364.
 Bayley, Kummel and Salisbury 1914 A, 13
 Eastman, C. R. 1905 B, 101
 1911 A, 28, 44

- Hussakof, L. 1908 A, 55.
 Lull, R. S. 1917 D, 109
 Lyman B. S. 1894 A, 209, 214.
 Woodward, A. S. 1890 E, 367
 Triassic (Newark), New Jersey.

PEPLORHINA Cope. Type *P. anthracina* Cope.

- Hay O. P. 1902 A, 364
 Barkas, W. J. 1874 D, 552.
 Jordan, D. S. 1919 B, 368

Peplorhina anthracina Cope.

- Hay, O. P. 1902 A, 364.

- Hussakof, L. 1911 A, 170
 Pennsylvanian: Ohio.

Peplorhina exanthematica Cope.

- Hay O. P. 1902 A, 364
 Pennsylvanian; Ohio

TARRASIIDÆ Traquair.

- Traquair, R. 1881 A, 61
 Abel, O. 1919 A, 163
 Jordan, D. S. 1923 A, 109
 Steensio, E. A. 1921 A, 147
 Traquair, R. H. 1890 G, 494 (Tarrasius)
 1891 A, 127

- Woodward, A. S. 1891 A, 317.
 1898 A, 81 (Tarrasius)
 Zittel, K. A. 1890 A, 129
 Zittel and Schlosser 1923 A, 84 (Syn. of Cœlacanthidæ)

PALÆOFICHTHYS Eastman.

- Eastman, C. R. 1908 A, 252
 1917 A, 272
 Jordan, D. S. 1923 A, 109
 Zittel and Schlosser 1923 A, 88

Type *P. parvulus* Eastman.**Palæofichthys parvulus** Eastman.

- Eastman, C. R. 1908 A, 253, fig. 37
 1917 A, 272 pl. v, fig. 2
 Pennsylvanian (Mazon Creek), Illinois

Subclass ACTINOPTERI Cope.

The literature of the Teleostomi is here included. The group Actinopteri is usually made to contain the Crossopterygia.

- Cope, E. D. 1871 T, 449, 451
 Hay, O. P. 1902 A, 356 (Teleostomi), 364 (Actinopteri)
 Abel, O. 1912 A, 153 (Teleostomi)
 1919 A, 183 (Actinopterygii)
 1920 A, 336, 341 (Actinopterygii)
 1921 A, 212 (Teleostomeni)
 1922 F, 73 ("teleostomen")
 1926 C, 43 (Teleostomeni)
 Allen, E. P. 1913 A, 324 (Teleostomi)
 1915 A, (Teleostomi).
 1918 B, 257 (Teleostomi)
 1922 C, 2 (Teleostomi)
 Auldt, T. 1923 A, 491 (Teleostomeni)
 Bonser, J. E. V. 1914 B, 543 ("knochenfische")
 Bonaparte, C. L. 1838 B, 131 (Teleostomi)
 1848 A, 48 (Teleostomi)
 Boulenger, G. A. 1901 D, 1 (Teleostomi)
 Bridge, T. W. 1904 A, 475 (Teleostomi)
 Cope, E. D. 1885 BB, 64 (Teleostomi).
 1891 N, 10, 19, 21 (Teleostomi, in part; Actinopterygii)
 Cunningham, J. T. 1897 A, 497 ("actinopterygians").
 1912 A, 246 (Teleostomi)
 Dean, B. 1896 D, 336 ("teleostomes").
 1900 A, 22 (Teleostomi).
 1916 A, ("fishes")
 Dean, Gudger, Henn 1923 A, 401 (Actinopterygii); 703 (Teleostomi).
 Dietz, P. A. 1917 A, 87 (Teleostomeni)
 1921 A, 433 (Acanthopterygii).
 Dollo, L. 1896 A, 85 ("téléostomiens")

- Dollo, L. 1906 B, 137 ("actinoptérygiens").
 Eastman, C. R. 1901 C, 329 (Actinopterygii)
 1907 B, 23, 164, 170, 225, 234 (Teleostomi, Actinopterygii)
 1908 A, 69, 255 (Actinopterygii), 66, 69 ("teleostomes")
 1911 A, 20 (Teleostomi)
 1912 A, 22b (Actinopterygii)
 Fowler, H. W. 1911 A, 144
 Furber, M. 1902 A, 195 (Teleostomeni)
 Gill, T. 1905 A, 658 (Teleostomi)
 Goetsch, W. 1920 A, 10, 518 (Teleostomeni)
 Goodrich, E. S. 1904 A, 494 (Actinopterygii)
 1908 A, 765 (Teleostomi)
 1908 B, 546 (Actinopterygii)
 1909 A, 302 (Actinopterygii)
 1924 A, 935
 Gregory, W. K. 1907 D, 448, 457, 460 (Actinopteri), 447 (Teleostomi)
 1915 D, 321, 345 (Actinopterygii)
 1920 A, 220 (Actinopterygii)
 1923 A, 238 (Actinopterygii)
 Hare, A. 1907 A, 658 ("actinopterygier")
 Hennig, E. 1912 A, 483 ("ganoiden teleostier")
 Hertwig, O. 1892 A, (Teleostomi)
 Hubbs, C. L. 1919 A, 570 (Actinopterygii, Teleostomi)
 1919 B, (Actinopterygii)
 Hubrecht, A. A. W. 1908 A, 150 (Teleostomi)
 Huene, F. 1926 A, 260 (Teleostomeni)
 Hussakof, L. 1906 A, 124 (Teleostomi)
 Jaekel, O. 1902 E, 1115 (Teleostomeni)
 1907 A, 186 (Teleostomata, Hypostomata)
 1911 A, 66 (Teleostomata)
 1919 A, 110 (Teleostomeni).

- Jaekel O 1928 A, 43 ('teleostomen').
- Jordan, D. S. 1905 A, 1, 598, 599, 11 555 595 (Teleostomi)
- 1907 B 225 246 424, 760 (Teleostomi).
- 1923 A, 111
- Kerr J. G. 1908 B, 174 (Teleostomi)
- Klaer, J 1924 A, 104, 121 ('teleostomes')
- Klein, E F 1879 A, 80 (Acanthopterygii).
- 1885 A, 118, 132, 199, 222 (Actinopterygii)
- 1886 A, 207, 236, 274 (Acanthopterygii)
- Lonnberg, E. 1902 A (Teleostomi)
- Meek, A 1916 A, 35, 48 (Teleostomi)
- Moodie, R L. 1915 I, 139 (Actinopterygians')
- 1926 A, 84 (Actinopterygii)
- Parker and Haswell 1897 A 183 (Teleostomi).
- Patten W 1912 A, 386 (Teleostomi)
- Pompeckj, J F. 1913 A, 1135 (Teleostomi); 1138 (Actinopterygii)
- Premi F. 1906 B, 264, figs. 1, 2 ('téléostomes')
- 1908 B 5 ('actinoptérygiens,' 'téléostomes')
- Regan C T 1904 A, 329 (Teleostomi)
- 1906 A 724 (Teleostomi)
- 1909 B, 75 (Teleostomi)
- Schlosser, M. 1917 A, 147 (Teleostomi)
- Schmalhausen, J. J 1912 A, 558 (Teleostomi)
- 1913 A, 4 (Teleostomi).
- 1913 C (Teleostomi).
- 1923 A, 537, 542 (Teleostomi)
- Sewertzoff, A N 1923 B (Actinopterygii, Teleostomi)
- 1926 A 451, 535 ('teleostomes,' 'actinopterygiens')
- Sewertzoff, A. N. 1926 D, 90.
- Shann, E W 1919 A, 532 (Teleostomi)
- Staiks, E C 1926 A, 91
- Stenmann, G 1927 A, 74, 76 ('actinopterygier').
- Stensao, E A 1921 A, 137, 148 (Actinopterygii)
- 1925 A *passim* (Actinopterygii), 40 ('teleostomes')
- 1925 B 179 188 (Teleostomi)
- Stohr, P 1882 A, 71 ('telostier')
- Stroner E 1905 C, 184 (Teleostomi)
- 1912 A, 25 48 (Teleostomi)
- 1925 B, 364 (Teleostomi)
- Sushkin P P 1910 A, 250 (Actinopterygii, Teleostomi).
- 1927 A, 264, 266 (Teleostomi)
- Swinnerton, H W 1905 A, 374 (Teleostomi)
- Traquair R H 1900 C, 507 (Actinopterygii, Teleostomi)
- Verduyn J 1925 B 182 ('teleostomen')
- Watson D M S 1926 A 201, 242 (Actinopterygii)
- Whitehouse, R H 1910 B, 590 (Teleostomi).
- Woodward, A S 1898 B, 69 (Teleostomi)
- 1901 A, v ('actinopterygian fishes').
- 1915 B 134 (Actinopterygii)
- 1922 C, 81, 84 (Teleostomi, Actinopterygii)
- Woodward H 1904 B 141 (Actinopterygii, Teleostomi)
- Wright, W 1909 A, 671 (Teleostomi)
- Zittel and Koken 1911 A, 84 (Teleostomi), 89 (Actinopterygii)
- Zittel and Schlosser 1923 A, 84 (Teleostomi), 89 ('Actinopterygii').

Superorder GANOIDEI Muller.

- Muller J 1845 A, 137
- Agassiz, L 1833 A, 470 ('ganoiden').
- 1835 B 331 ('ganoides')
- 1835 I, 99 ('ganoidians').
- 1844 D, 139 ('ganoides').
- 1844 E, 332 ('ganoids')
- 1856 A 9 ('ganoids')
- Allis E P 1922 C, 3
- 1923 B, 132.
- Ardt T 1907 D, 645
- Aves H. 1906 A, 77.
- Bairdeleben K 1896 A 113 ('ganoiden').
- Barrell J 1915 B, 418 ('ganoids').
- Boas J. E V 1914 B, 542 ('ganoiden')
- Brandt J F 1865 A, 15 ('ganoiden').
- Braus H 1901 B 201 ('ganoiden').
- 1906 A ('ganoiden')
- Bronn H G 1862 B, 380 ('ganoiden')
- Carus and Engelmann 1861 A, 1740
- Cockerell T D A. 1911 F 367 ('ganoids')
- Collinge W E. 1890 A, 499
- 1895 D, 77 ('ganoids').
- Cunningham, J T. 1897 A, 492 ('ganoids')
- Dana J. D 1863 B, 317 ('ganoids').
- 1863 C 343 ('ganoids')
- 1863 D 130, 131 ('ganoids').
- Dean B 1896 D, 336 ('ganoids').
- Dean Gudge, Henn 1923 A, 621, 681.
- Dollo, L 1889 E, 152 ('ganoides').
- 1892 D, 120 ('ganoides').
- 1896 A ('ganoides').
- Dohrn A 1884 A 186 ('ganoiden')
- Dormitzer, M 1852 A, 61 ('ganoiden')
- Drüner, L 1902 A, 438 ('ganoiden')
- Eastman C R 1898 E, 181 ('ganoids')
- Ehni, V 1896 A, 146 ('ganoiden')
- Egerton P G 1854 A, 367
- Eggenling, H 1906 A, 105 ('ganoiden')
- Fitzinger L J 1873 A, 49, 52
- Frassetto, F 1915 A ('ganoidi')
- Fuhringer K 1903 A, 377 ('ganoiden')
- Gadow, H 1896 A, 15 ('ganoids')
- Gann M. 1880 A 143
- 1905 D, 830, 836, 899 ('ganoiden').
- Gaupp E 1906 B ('ganoiden')
- Gegenbaur C 1867 A, 56 ('ganoiden')
- 1867 B 386 ('ganoiden')
- 1870 C, 442 ('ganoiden')
- 1879 A, 525 ('ganoiden')
- Goette, A 1901 A 533 552 ('ganoiden')
- Gregory W K 1904 A 62
- 1917 D, 625 ('ganoids').
- Haeckel, E 1893 A, xvi ('ganoiden')
- Haller, G 1924 A 305 ('ganoiden').
- Hase, A. 1907 A, 656 ('ganoiden')
- Hasse, C 1872 A, 419 ('ganoiden')
- Hasse and Schwarck 1870 A, 30 ('ganoiden')
- Hatschek, B 1889 B, 113 ('ganoiden')
- Heckel, J. 1850 A, 358 ('ganoiden').
- 1850 B, 143 ('ganoiden')
- 1851 A, 219 ('ganoiden').
- Hoernes, R. 1886 A, 546

- Hofer, B 1890 A, 103 ("ganoiden")
 Howes, G B. 1894 A, 87.
 Hubbs, C. L 1926 A, 73 ("ganoids")
 Hubrecht, A A W. 1908 A, 153 ("ganoids").
 Huxley, T. H 1858 D, 515 ("ganoids").
 1859 H, 33
 1863 F, 427
 1869 G, 452.
 1876 E, 121.
 1880 E, 471
 1881 A, 454 ("ganoids")
 1883 B, 567 ("ganoids")
 Jacobshagen, E 1920 A, 88 ("ganoiden").
 Jaekel, O 1902 A, 107 ("ganoiden").
 1926 B, 43 ("ganoiden")
 1926 D, 71 ("ganoiden").
 1927 A, 251 ("ganoiden").
 Jordan, D S 1898 A, 176 ("ganoids").
 1905 A, 11 2, 571
 1907 B, 225, 247, 760.
 1923 A, 111.
 Knaer, J 1924 A, 111 ("ganoids").
 Kingsley, J S 1925 A, 11, 32, 98, 236.
 Klaatsch, H. 1890 A, 124, 182 ("ganoiden")
 Kner, R 1860 B, 818
 Laaser, P. 1903 A, 572 ("ganoiden").
 Lakjer, T 1927 A, 278.
 Lavocat, A 1885 A, 32 ("ganoids")
 Ledouble, A. F 1903 A, 645 ("ganoids").
 Lutkin, C 1868 C
 1871 A, 283 ("ganoids")
 Martins, C 1872 A, 307 ("ganoides").
 Miller, H 1851 A, 91 ("ganoids")
 Osborn, H F 1916 E, 601 ("ganoids").
 Parker, W K 1887 B, 54 ("ganoids")
 Pehrson, T 1922 A
 Philippi and Frech 1903 A, 11 ("ganoiden").
 Puccioni, N. 1908 A, 56 ("ganoiden").
 Reynolds, S. H. 1897 A, 542.
 Rose, C. 1897 A, 60 ("ganoiden")
 Sabatier, A 1904 A, 249 ("ganoides")
 Sagemehl, M. 1883 A ("ganoiden")
 Salbey, R 1868 A, 734 ("ganoiden")
 Schaunslund, H 1906 A, 427 ("ganoiden").
 Schlosser, M. 1898 D, 120 ("ganoiden").
 1917 A, 133, 137, 142, 146 ("ganoiden")
 Schone, G 1902 A, 1 ("ganoiden").
 Seupin H 1896 A, 145 ("ganoiden").
 Sewertzoff, A N 1896 A, 273 ("ganoiden")
 1897 A, 410 ("ganoiden")
 1923 B
 1926 A
 Solger, B 1880 B, 367 ("ganoiden").
 Stannius, H. 1854 A (Ganoiden)
 Steinmann, G 1908 A, 205 ("ganoiden").
 1927 A, 9
 Stephan, P. 1900 A, 294, 316 ("ganoides").
 Stolley, E. 1920 A, 76 ("ganoiden").
 Stromer, E 1912 A, 28, 48.
 1925 B, 348, 350
 Traquair, R H. 1870 A, 177 ("ganoids").
 Uhlmann, E 1921 A ("ganoiden")
 Vert O 1907 A, 174 ("ganoiden")
 Wagner, R 1843 A ("ganoiden")
 Whitehouse, R. H 1910 C, 135 ("ganoids")
 Wiedersheim, R. 1892 A, 45 ("ganoiden")
 Woodward, A S. 1922 C, 96
 Wright, W. 1909 A, 671 ("ganoids")
 Ziegler H E 1901 A, 231 ("ganoiden").
 Zittel and Koken 1911 A, 90
 Zittel and Schlosser 1923 A, 90.

Order CHONDROSTEI Müller.

- Müller J. 1845 A, 119, 137.
 Hay, O P 1902 A, 365.
 Allis, E P 1905 A, 478, 495.
 1909 A, 202
 1915 A, 613.
 1918 B, 263.
 1919 A, 374.
 Arlitt, T. 1907 D, 645.
 1923 A, 492 ("chondrostier")
 Beer, G R 1926 A, 277
 Belling, D. E 1912 A, 52
 Bonaparte, C. L 1833 B, 1202 (Eleutheropomi)
 Bridge, T W. 1878 A, 727 (Selachoides)
 1904 A, 485
 Bronn, H G. 1849 A, 830, seq
 Carus, V. 1875 A, 594
 Cope, E D 1871 T, 451
 1891 N, 20
 Cunningham, J T 1912 A, 240, 246, 261, 383.
 Davidoff, M. 1879 A, 485.
 Dean, Gudger, Henn 1923 A, 674.
 Duméril, A 1870 A, 18, 19 ("chondrostés").
 Eastman, C. R 1907 B, 23, 170.
 1908 A, 63, 69, 255
 1911 A, 18, 20, 45
 1914 A, 140
 1917 A, 244
 Emery, C 1895 A, 224 ("chondroganoides").
 Furbringer, M 1902 A, 163 ("chondrostenden")
 Gadow, H. 1902 B, 359
 Gaupp, E. 1898 B, 841, 863 ("knorpelganoiden")
 1905 D, 902 ("knorpelganoiden")
 1913 A, 83 ("knorpelganoiden")
 Gegenbaur, C 1866 A, 123.
 Gill, T 1905 A, 658.
 1909 B, 838 (Chondroganoides)
 Goetsch, W. 1920 A, 514.
 Goodrich, E S 1904 A, 495.
 1906 A, 351.
 1909 A, 307 (Chondrostei); 315 (Acipenseroides).
 1912 A, 80.
 Greene, J R 1861 A, 227.
 Gregory, W. K. 1907 D, 448, 462 (Acipenseroides); 462 (Chondrostei); 448, 462 (Heterocerca)
 1920 A, 221.
 Hasse, C 1893 C, 76 ("knorpelganoiden")
 Heckel, J. 1851 A, 219.
 Hilzheimer, M 1913 A, 471.
 Hoernes, R 1886 A, 546, 549.
 Hubbs, C. L. 1919 A, 570
 Huxley, T H. 1861 D, 441, 448.
 Jaekel, O. 1906 D, 180
 1911 A, 49 (Chondrostei); 80 (Heterocerca).
 1919 A, 75, 104.
 1921 A, 222, 234 (Chondrostei)
 1926 A, 174.
 1927 B, 337.

- Jordan, D. S. 1905 A, ii (Lysopteri); 17, 563 (Chondrostei).
 1907 B, 253, 760.
 1923 A, 111 (Chondrostei); 113 (Glanostomi, Selachostomi).
 Jordan and Gilbert 1882 A, 82.
 Kehrer, F. A. 1896 A, 351 ("knorpelganoiden").
 Kner, J. 1924 A, 108.
 Kingsley, J. S. 1885 A, 92
 1925 A, 98.
 Klaatsch, H. 1893 B, 665 ("knorpelganoiden")
 1893 C, 148 ("knorpelganoiden").
 Lakjer, T. 1927 A, 280 ("chondrosteier").
 Leunis and Ludwig 1883 A, 776.
 Lönnberg E. 1901 A.
 1902 A (Sturiones).
 Luther, A. 1913 A.
 1913 B, 5, 15, 47, 55.
 Lutkin, C. 1888 C.
 Meek, A. 1916 A, 48.
 Miall, L. C. 1872 A, 34.
 Moodie, R. L. 1915 I, 145.
 Parker, W. K. 1881 C, 71 ("chondrosteian ganoids").
 Parker and Haswell 1897 A, 203.
 Pompeckj, J. F. 1913 A, 1130 (Chondrostei); 1141 (Chondrosteoiden)
 1926 A, 71.
 Rabl, C. 1901 A, 481 ("chondrosteiden").
 Rauther, M. 1913 A, 1099.
 Regan, C. T. 1904 A, 330, 332
 1906 A, 729.
 1909 B, 75.
 1923 B, 458.
 Reynolds, S. H. 1897 A, 67, 105, 117, 123, 537.
 Romer, A. S. 1924 A, 121, 127, 128.
 Rosén, N. 1916 A, 22-30.
 Ryder, J. 1885 C, 96.
 1886 A, 74, 77.
 Schlesinger, G. 1909 A (147).
 Schmalhausen J. J. 1912 A, 524
 1913 A, 2.
 Schmalhausen, J. J. 1913 C.
 1916 C, 209.
 1917 A, 108.
 Sewertzoff, A. N. 1896 A, 273 ("knorpelganoiden").
 1918 A, 207.
 1923 B.
 1926 A, 451 (Chondrostei), 523 (Chondrosteoiden); 451, 523 (Palæoniscoiden).
 1926 B, 547 (Chondrostei, Chondrosteoiden).
 1926 C, 42 ("knorpelganoiden").
 1926 D, 76, 83.
 1926 E, 556.
 1926 F, 274 ("knorpelganoiden").
 Sewertzoff and Disler 1924 A, 345 ("knorpelganoiden").
 Shann, E. W. 1919 A, 556.
 Stensio, E. A. 1921 A, 271.
 1925 A, 119, 216.
 1927 A, 32.
 Stromer, E. 1912 A, 30 (Chondrostei); 31 (Heterocerai).
 1925 B, 356 (Chondrostei, Heterocerai).
 Suchkm P. P. 1910 A, 250.
 Terra, P. 1911 A, 204.
 Traquair, R. H. 1880 A, 158.
 1900 C, 508 (Acipenseroiden).
 1911 A, 7 (Acipenseroiden).
 Wallace, A. R. 1876 A, ii, 459.
 Watson, D. M. S. 1925 A, 815, 849.
 Whitehouse, R. H. 1910 B, 593, 594.
 Woodward A. S. 1906 A, 315.
 1906 C, 276.
 1922 C, 85.
 Woodward, H. 1878 A, 18, 22.
 Zittel and Koken 1911 A, 94 (Chondrostei), 97 (Heterocerai).
 Zittel and Schlosser 1923 A, 94, 97 (Chondrostei, Heterocerai).
 Zittel and Woodward 1902 A, 73.
 Zograf, N. 1887 A, 70.
 1896 B, 320.

Suborder PALÆONISCIFORMES, new name.

- Cope, E. D. 1880 P, 440 (Lysopteri).
 Goodrich, E. S. 1909 A, 309 (Palæoniscoiden).
 Jordan, D. S. 1905 A, ii, 13, 580 (Lysopteri).
 1907 B, 249 (Lysopteri).
 Sewertzoff, A. N. 1923 B, 105-145 (Palæoniscoiden).
 1926 A, 451, 523.
 Zittel and Woodward 1902 A, 75 (Heterocerai).

PALÆONISCIDÆ Owen.

- Owen R. 1860 E, 136.
 Hay, O. P. 1902 A, 365.
 Abel, O. 1919 A, 186, fig. 170.
 1920 A, 343 ("palæonisciden").
 1921 A, 212 ("palæonisciden").
 Allis, E. P. 1905 A, 490.
 1919 A, 375.
 1919 B, 75.
 1922 A, 149.
 1923 A, 57.
 Arltdt, T. 1907 D, 670.
 1923 A, 493 ("palæonisciden").
 Bridge, T. W. 1878 A, 371.
 1904 A, 486.
 Bronn, H. G. 1849 A, 830, seq. (Sauroiden).
 Carus V. 1875 A, 591 (Palæoniscini).
 Cope, E. D. 1891 N, 20.
 Cunningham, J. T. 1897 A, 498.
 Deecke, W. 1913 A, 72 ("palæonisciden").
 Eastman C. R. 1905 A, 57.
 1907 B, 23, 171.
 1908 A, 256.
 1913 A, 119 ("palæoniscid").
 1917 A, 273.
 Fitzinger, L. J. 1873 A, 52 (Palæonisci).
 Gill, E. L. 1923 B, 467.
 Gill, T. 1881 A, 371.
 Goodrich, E. S. 1904 A, 495, 499.
 1908 A, 768.
 1909 A, 309 (Palæoniscidæ, Palæoniscoiden).
 1913 A, 80.
 Gregory, W. K. 1907 D, 448.

- Gregory W. K. 1915 D, 322.
 Hennig E. 1915 A, 577 (Palæoniscus).
 Hubbs, C. L. 1919 B, 62, 63.
 Jaekel, O. 1911 A, 80 ("palæonisciden").
 1926 D, 70.
 Jordan, D. S. 1905 A II 14, 584.
 1907 B, 250, 760.
 1923 A, 111.
 Klier, J. 1924 A, 95, 97, 99, 108, 109, 125, fig. 42 (Palæoniscoiden).
 Lambe, L. M. 1909 B, 176.
 1910 B, 9.
 1912 A, 5.
 Moodie R. L. 1915 I, 145.
 Pompeck J. F. 1913 A, 1140.
 Regan, C. T. 1904 A, 334.
 1923 B 455-460.
 Rice and Gregory 1906 A, 172 ("palæoniscids").
 Ridewood W. G. 1904 A, 69 ("palæoniscid fishes").
 Rosén N. 1916 A, 18-30, fig. 9 ("Palæoniscoiden").
 Schlosser, M. 1917 A, 133, 135, 138, 147 ("palæonisciden").
 Scupin H. 1896 A 156-181.
 Sewertzoff A. N. 1923 B.
 1926 E, 555.
 Stenmann G. 1907 A, 410.

- Stensio E. A. 1921 A, 148, 238.
 1922 A, 1263 ("palæoniscid").
 1925 A, *passim*.
 1925 B, 162, 187.
 Stolley, E. 1920 A, 79 ("palæonisciden").
 Stromer E. 1905 H 216.
 1925 B 360 ("palæonisciden").
 Traquair, R. H. 1879 C 128.
 1880 A, 157.
 1900 C 507.
 1901 A, 61.
 1909 A.
 1911 A 7.
 1911 B.
 1912 A.
 1914 A.
 Trouessart E. L. 1906 A 212.
 Watson D. M. S. 1913 D, 26 ("palæoniscids").
 1923 A 472.
 1925 A 815-870 figs. 9-20.
 Woodward, A. S. 1906 A, 313.
 1906 C, 276.
 1911 C, 46 ("palæoniscids").
 1924 A 113.
 Zittel and Koken 1911 A 98.
 Zittel and Schlosser 1923 A 98.
 Zittel and Woodward 1902 A 75.

GONATODUS Traquair. Type *Amblypterus punctatus* Agassiz.

- Hav, O. P. 1902 A, 365.
 Goodrich, E. S. 1908 A, 768.
 Klier, J. 1924 A 87.
 Stensio E. A. 1925 A, 86.
 Traquair R. H. 1877 D, 265.
 1907 A 92 fig. 2.
 Watson, D. M. S. 1925 A 859, fig. 27.

Gonatodus brainerdi (Thomas).

- Hav, O. P. 1902 A, 365.
 Hussakof, L. 1908 A 74.
 Newberry J. S. 1874 G, 90-98 (Palæoniscus).
 1874 H, 212 (Palæoniscus).
 Traquair R. H. 1907 A, 93.
 Mississippian (Berea grit), Ohio.

AMBLYPTERUS Agassiz. Type *A. latus* Agassiz.

- Hav, O. P. 1902 A, 365.
 Abel O. 1919 A 188, fig. 143.
 1920 A 337, fig. 534.
 Agassiz L. 1833 A, 371.
 1835 B, 345.
 1835 H, 205.
 1844 C 268.
 Atthey, T. 1868 C 361.
 Barkas W. J. 1874 D 549.
 Brongniart C. 1888 C, 57.
 Bonn H. G. 1837 A, 126.
 1848 A, 28.
 1849 A, 657.
 Coulon L. 1903 A, 139.
 Deecke W. 1913 A, 72.
 Egerton P. G. 1849 B, 1.
 Giebel, C. G. 1855 A 113 pl. xlvii fig. 8.
 Goodrich E. S. 1904 A, 496.
 1909 A, 212.
 Heckel, J. J. 1850 A, 363.

- Heilprin, A. 1887 A, 302.
 Jordan and Evermann 1917 A, 144.
 Klier, J. 1924 A, 106.
 Klaatsch, H. 1890 A, 144.
 Mantell, G. A. 1844 A, 633.
 Newberry, J. S. 1857 D 364.
 Owen, R. 1845 B, 69.
 1866 A, 196.
 Scupin, H. 1896 A, 158.
 Stensio, E. A. 1925 A, 86, 209.
 Watson, D. M. S. 1925 A, 825, 826, fig. 4.
 Woodward and White 1926 A, 570.
 Zittel and Koken 1911 A, 98.
 Zittel and Schlosser 1923 A, 99.
 Zittel and Woodward 1902 A, 75.

Amblypterus carolinæ Hay.

- Hay O. P. 1902 A 365.
 Triassic (Chatham). North Carolina.

HAPLOLEPIS E. A. Miller. Type *Eurylepis corrugata* (Newb.).

- Hay, O. P. 1902 A, 366.
 Ardit, T. 1923 A, 494 (Eurylepis).
 Barkas, W. J. 1874 D, 550 (Eurylepis).
 Davis, J. W. 1880 C, 60 (Eurylepis).
 Newberry, J. S. 1857 D, 364 (Mekolepis).

- Traquair, R. H. 1914 B, 182 (Eurylepis).
 Zittel and Koken 1911 A, 98 (Eurylepis).
 Zittel and Schlosser 1923 A, 99, fig. 162 (Eurylepis).
 Zittel and Woodward 1902 A, 75 (Eurylepis).

Haplolepis corrugata (Newb.).

Hay, O P 1902 A, 366
Hussakof, L. 1908 A, 74.
Pennsylvanian; Ohio.

Haplolepis granulata (Newb.).

Hay, O P 1902 A, 366
Hussakof and Bryant 1919 A, 191.
Pennsylvanian Ohio.

Haplolepis minima (Newb.).

Hay O P 1902 A 366
Pennsylvanian Ohio

Haplolepis ornatissima (Newb.).

Hay O P 1902 A, 366
Hussakof, L. 1908 A 75
Pennsylvanian; Ohio

Haplolepis ovoidea (Newb.).

Hay O P 1902 A 366
Pennsylvanian, Ohio

CHEIROLEPIS Agassiz.

Hay, O P 1902 A, 366
Abel O 1907 D, (162)
1919 A 187 fig 141
Agassiz A 1877 A 124
Agassiz L 1835 B 345
1844 C 269.
Ardt T 1923 A 493
Barkas, W J 1874 D 549
Bridge T W 1904 A, 487
Bronn H G 1848 A, 285
1849 A 656
Coulon L 1903 A 137
Eastman C R 1907 B, 171.
1908 A 255
Gebel C G 1855 A, 113
Goodrich, E S 1904 A, 497.
1908 A 768 fig 202.
1909 A, 311, fig 288
Gregory W K 1915 D, 322.
Heuprim A 1887 A 149 (Cheirolepis)
Huxley, T H 1861 D 458
Lutken C 1871 A 287.
Osborn H F 1916 E 605, fig 14
1917 B 170 fig
Pompeck J F 1913 A 1140, fig 46
Regan C T. 1904 A, 339.

RHADINICHTHYS Traquair. Type *Palæoniscus ornatissimus* Agassiz.

Hay O P 1902 A, 367.
Ardt T 1923 A 494
Brongniart, C 1888 C, 61.
Day H 1915 A, 422, figs. 1-3.
Eastman C R 1908 A, 257.
1916 A 655
1917 A, 273
Jaekel O 1927 B 338
Moodie R L 1915 I, 137, 142, 147
Stensio, E A. 1921 A, 148
1925 A, 86, 209
Tornquist, A. 1904 A, 347.
Traquair, R H 1877 D, 431

Haplolepis serrata (Newb.).

Hay O P 1902 A 366
Pennsylvanian; Ohio

Haplolepis striolata (Newb.).

Hay O P 1902 A 366
Pennsylvanian; Ohio

Haplolepis tuberculata (Newb.).

Hay, O. P 1902 A, 366
Hussakof and Bryant 1919 A, 191
Zittel and Woodward 1902 A 76, fig 133
(Eurylepis)
Pennsylvanian, Ohio

Haplolepis sp. indet.

Eastman C R 1902 B, 97 (Eurylepis)
1902 G 541 (Eurylepis) Pennsylvanian
(Mazon Creek); Illinois
1903 B 194 (Eurylepis) Pennsylvanian
(Mazon Creek), Illinois
1908 A 260 (Eurylepis) Mississippian
(Waverly) Kentucky

Type *C. trailli* Agassiz.

Schlosser, M 1917 A, 147
Sewertzoff A N 1923 B, 119
Traquair, R H 1880 A, 150, 155
1900 C, 507
Watson, D M S 1923 A, 472
1925 A 816, 820 823 864 figs 1-3
Watson and Day 1916 A 28
Woodward A S 1906 C, 276
Zittel and Koken 1911 A, 98
Zittel and Schlosser 1923 A, 98
Zittel and Woodward 1902 A, 75

Cheirolepis canadensis Whiteaves.

Hay O. P 1902 A, 366
Clarke, J M 1913 A, 115
Claypole, E W. 1883 C 278
Eastman C R 1907 B, 17, 171
1908 A, 256
1917 A, 273
Hussakof and Bryant 1919 A, 181, pl. lvii, figs
1, 2
Lambe, L M 1904 C 17, 34, 43
1912 A 5
Whiteaves, J F. 1907 B, 255
Upper Devonian (Scaumencue); Quebec

Palæoniscus ornatissimus Agassiz.

Traquair, R H 1880 G, 493
1911 B, 126
Watson, D. M S. 1925 A, 832
Woodward, A S 1924 A, 113, fig. 5
Woodward and White 1926 A, 570.

Rhadinichthys alberti (Jackson).

Jackson C T. 1851 B 22, pl. i fig 1; pl. ii,
figs 2-6 8 (Palæoniscus).
Hay, O P. 1902 A, 367 (R. alberti, R
cairnson).
Brongniart, C. 1888 C, 49 (Palæoniscus alberti,
P. cairnson)

- Dawson, J. W. 1868 A, 131, fig. 62 (*Palaeoniscus*)
 Eastman, C. R. 1908 A, 261 (R. alberti, R. cairnsii).
 Hussakof and Bryant 1919 A, 188, text-fig. 63.
 Jackson, C. T. 1851 C, 281 ("Palaeoniscus")
 Kiser, J. 1924 A, 99, fig. 44.
 Lambe, L. M. 1904 C, 18, 34, 43 (R. alberti, R. cairnsii).
 1909 A, 167, figs. 1, 2 (R. cairnsii a syn.).
 1910 B, 18, pl. iii, figs. 1-6 (R. cairnsii a syn.).
 Tornquist, A. 1904 A, 330 (R. cairnsii).
 Traquair, R. H. 1877 A, 559 (R. alberti, R. cairnsii).
 Woodward and White 1926 A, 570, 571.
 Young, G. A. 1913 A, 356
 Mississippian (Albert); New Brunswick.
- Rhadinichthys antiquus (Williams).**
 Hay, O. P. 1902 A, 368 (*Palaeoniscus*).
 Eastman, C. R. 1907 B, 18, 171 (*Palaeoniscus*. This genus?).
 1908 A, 282
 1917 A, 273 (To *Rhadinichthys*)
 Hussakof and Bryant 1919 A, 19, 182, 183, pl. lxiii, fig. 3, pl. lxiv; text-figs. 60, 62
 Upper Devonian (Portage); New York.
- Rhadinichthys deani Eastman.**
 Eastman, C. R. 1908 A, 264, pl. xiii, text-figs. 40, 41
 Eastman, C. R. 1913 A, 119
 1916 B, 104
 1917 A, 273
 Dean, B. 1912 A, 228
 Moodie, R. L. 1910 A, 367.
 1911 G, 278
 1915 I, 139, 142, 147, fig. 4
 1920 F, 330 figs. 1, 2
 Parker, G. H. 1908 A, 172 ("fish").
 Wiman, C. 1918 B, 88
 Mississippian (Waverly), Kentucky.
- Rhadinichthys devonicus (Clarke).**
 Hay, O. P. 1902 A, 368 (*Palaeoniscus*)
 Clarke and Ruedemann 1903 A, 768 (*Palaeoniscus*)
 Clarke and Luther 1904 A, 62 (*Palaeoniscus*)
 Eastman, C. R. 1907 B, 17, 171 (*Palaeoniscus*?)
 1908 A, 258, 282
 Hussakof and Bryant 1919 A, 19, 182, pls. lxx-lxxii; pl. lxx figs. 1, 3, text-figs. 60, 61
 Merrill, G. P. 1907 A, 13 (*Palaeoniscus*).
 Traquair, R. H. 1881 A, 46.
 Brongniart, C. 1888 C, 62.
 Lambe, L. M. 1909 A, 167, 172.
 Scupin, H. 1896 A, 158.
 Traquair, R. H. 1890 G, 493
 1912 A, 171.
 1914 A, 181.
 Woodward, A. S. 1891 A, 430.
- Traquair, R. H. 1911 B, 127.
 Upper Devonian (Genesee and Portage), New York (New Albany); Kentucky.
- Rhadinichthys elegantulus (Eastman).**
 Eastman, C. E. 1908 A, 274 (*Elonichthys*).
 Hussakof and Bryant 1919 A, 189, pl. lxvi, text-fig. 63
 Lambe, L. M. 1909 A, 167 (*Elonichthys*)
 1910 B, 30 (*Elonichthys*).
 Young, G. A. 1913 A, 356 (*Elonichthys*).
 Mississippian (Albert); New Brunswick
- Rhadinichthys gracilis (Newb. and Worth.).**
 Hay, O. P. 1902 A, 367.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541
 1903 B, 194
 1917 A, 274, pl. ix, fig. 4
 Pennsylvanian (Mazon Creek); Illinois.
- Rhadinichthys leidyanus (Lea).**
 Hay, O. P. 1902 A, 367
 Merrill, G. P. 1907 A, 14 (*Palaeoniscus*)
 Pennsylvanian, Pennsylvania
- Rhadinichthys? lineatus (Newb.).**
 Hay, O. P. 1902 A, 367
 Hussakof, L. 1908 A, 95 (This genus?)
 Pennsylvanian, Ohio
- Rhadinichthys reticulatus (Williams).**
 Hay, O. P. 1902 A, 368 (*Palaeoniscus*)
 Eastman, C. R. 1907 B, 18, 171 (To *Rhadinichthys*)
 1908 A, 282.
 1917 A, 273
 Hussakof and Bryant 1919 A, 182
 Upper Devonian (Portage), New York
- Rhadinichthys sp. indet.**
 Branson, E. B. 1911 B, 30, pl. i, figs. 1-6
 Devonian (Ohio shales), Ohio
 Eastman, C. R. 1907 B, 172, pl. iv, fig. 11;
 pl. ix, fig. 4 Devonian (Chemung), Pennsylvania
 1908 A, 260 Devonian (Chemung); Pennsylvania
 Hussakof and Bryant 1919 A, 188 Upper Devonian (Portage); New York.
 Kindle, E. M. 1914 C, 288. Devonian (Huron): Ontario

CANOBIUS Traquair. Type *C. ramsayi* Traquair.

- Traquair, R. H.* 1881 A, 46.
Brongniart, C. 1888 C, 62.
Lambe, L. M. 1909 A, 167, 172.
Scupin, H. 1896 A, 158.
Traquair, R. H. 1890 G, 493
 1912 A, 171.
 1914 A, 181.
Woodward, A. S. 1891 A, 430.
- Canobius modiolus (Dawson).**
 Hay, O. P. 1902 A, 367 (*Rhadinichthys*)
 Eastman, C. R. 1908 A, 262, fig. 39 (*Rhadinichthys*)
 Lambe, L. M. 1904 C, 18, 35, 43 (*Rhadinichthys*).
 1909 A, 167, 172, figs. 7, 8
 1910 B, 31, pl. xi, figs. 1-7.
 Traquair, R. H. 1912 A, 171
 Mississippian (Albert); New Brunswick.
 Nova Scotia.

Pygopterus Agassiz. Type *P. humboldti* Agassiz.

Hay, O. P. 1902 A, 367.

Agassiz, L. 1833 A, 475.

1835 H, 217.

1844 C, 267.

Atthey, T. 1868 C, 362.

Barkas, W. J. 1874 D, 552.

Bronn, H. G. 1848 B, 1066

1849 A, 662

Deecke, W. 1926 A, 186.

Stensio E. A. 1921 A, 149, 203.

1925 A, 86, 209.

Wilser, J. L. 1923 A, 68, fig.

Zittel and Koken 1911 A, 98.

Zittel and Schlosser 1923 A, 98.

Pygopterus humboldti Agassiz.

Hay O. P. 1902 A, 367.

Permian, Europe. Triassic (Newark). Penn-
sylvania**Palæoniscum Blainv. Type *P. freuslebenense* Blainv.**Unless otherwise indicated the authors as
cited, use the form *Palæoniscum*Hay, O. P. 1902 A, 367 (*Palæoniscum*)

Abel, O. 1912 F, 476

1919 A, 187, fig. 142.

Agassiz, L. 1833 A, 372

1835 B, 345

1835 D, 189

1835 H, 206

1844 C, 268

Atthey, T. 1868 C, 357, pl. xvi

Barkas, W. J. 1874 D, 55 (*Palæoniscum*)

Bridge, T. W. 1904 A, 486.

Bromant, C. 1888 C, 57

Bronn, H. G. 1848 B, 893 (*Palæoniscum*,
Palæoniscus).

1849 A, 657

Cunlon, L. 1903 A, 137.

Cunningham, J. T. 1897 A, 497

Cuvier, G. 1825 A, v, 2, 307 (*Palæoniscum*)

Deecke, W. 1913 A, 72

1926 A, 186

Dollo, L. 1904 C, 139, 235

Domtzen, M. 1852 A, 61

Eastman, C. R. 1907 B, 171.

1915 B, 440.

1916 A, 655

1916 B, 104

1917 A, 273

Egerton, P. G. 1852 C, 6 C, 1, pl. n

Giebel, C. G. 1855 A, 113

Goodrich, E. S. 1904 A, 496

1908 A, 757.

1909 A, 310, fig. 286

Gregory, W. K. 1901 A, 143 (*Palæoniscum*).

Heckel, J. J. 1850 A, 363, 365

Heilprin, A. 1887 A, 302

Henning, E. 1915 A, 577

1915 C, 52

Jackson, C. T. 1854 A, 239

Jaekel, O. 1911 A, 86, figs. 61, 63.

Jordan, D. S. 1905 A, n, 14, 584 (*Palæoniscum*)1907 B, 250 (*Palæoniscum*)1917 A, 108 (*Palæoniscum*).

Klaatsch, H. 1890 A, 144.

Lounsbury, E. 1901 A

Lutken, C. 1868 C

1871 A, 227

Mantell, G. A. 1844 A, 633

Mull, L. C. 1872 A, 25.

Muller, J. 1845 A.

1846 C, 118.

Murchison, R. I. 1854 A, 317, fig. 58

Newberry, J. S. 1857 D, 304

Pompeck, J. F. 1913 A, 1141, fig. 47

Price, P. H. 1927 A, 215, 225, pls. xv, xix.

Redfield, W. C. 1842 A, 23

Regan, C. T. 1923 B, 461

Reynolds, S. H. 1897 A, 67

Rogers, H. D. 1844 A, 249, 251

Ryder, J. 1885 E, 95

Scupin, H. 1896 A, 156, pl. ix, figs. 2, 3

Sewertzoff, A. N. 1926 E, 555

Stemmum, G. 1907 A, 410

Stensio E. A. 1921 A, 149

1925 A, 210

Tonquist, A. 1904 A, 348.

Triaque, R. H. 1901 A, 61

Watson, D. M. S. 1925 A, 822, 826

Woodward, A. S. 1898 B, 83, fig. 61

1906 C, 276, fig. 9.

1922 C, 85, fig. 91.

Zittel and Koken 1911 A, 98.

Zittel and Schlosser 1923 A, 98, fig. 159

Zittel and Woodward 1902 A, 76

Palæoniscum scutigerum Newb.

Hay O. P. 1902 A, 368

Pennsylvanian, Ohio

Palæoniscum sp. indet.Bell, W. A. 1913 A, 340, 343 (*Palæoniscus*)

Pennsylvanian (Joggins); Nova Scotia.

Hobbs, W. H. 1901 A, 55 ("Palæoniscus").

Triassic (Newark); Connecticut

Phillips, W. B. 1912 A, 18 (*Palæoniscus*, This

genus?) Permian (Wichita), Texas

Stauffer and Schroyer 1920 A, 146, pl. xiii, figs.

38, 39 (*Palæoniscus*). Permian (Elm Grove),

Ohio

Tilton, J. L. 1926 B, 394 (This genus?) Per-

mian, West Virginia

TEGEOLEPIS S. A. Miller. Type *Actinophorus clarkii* Newb.

Hay, O. P. 1902 A, 368

Jordan, D. S. 1920 C, 458.

Tegolepis clarkii (Newb.).

Hay, O. P. 1902 A, 368.

Claypole, E. W. 1903 A, 319 (*Actinophorus*).Eastman, C. R. 1907 B, 19 (*Actinophorus*).1908 A, 285 (*Actinophorus*).

Hussakof, L. 1908 A, 102

Devonian (Cleveland); Ohio.

ELONICHTHYS Giebel. Type *E. germari* Giebel.

- Hay, O. P. 1902 A, 368.
 Arlitt, T. 1923 A, 494
 Barkas, W. J. 1874 D, 550
 Brongniart, C. 1888 C, 60.
 Deecke, W. 1913 A, 72
 Eastman, C. R. 1903 B, 190
 1917 A, 274.
 Giebel, C. G. 1855 A, 113
 Goodrich, E. S. 1908 A, 768.
 Raymond, P. E. 1925 B, 553.
 Stensio, E. A. 1921 A, 149.
 Traquair, R. H. 1877 D, 275
 1879 B, 119
 1901 A
 1907 A.
 Watson, D. M. S. 1925 A, 832, 851, figs 21-25,
 28, 29
 Woodward, A. S. 1922 C, 85, fig 90
 Zittel and Koken 1911 A, 98
 Zittel and Schlosser 1923 A, 98
 Zittel and Woodward 1902 A, 77

Elonichthys brownii (Jackson).

- Hay, O. P. 1902 A, 368 (E. browni)
 Eastman, C. R. 1903 A, 266.
 Hussakof and Bryant 1919 A, 191
 Lambe, L. M. 1904 C, 18, 35, 43
 1909 A, 167, 169, figs. 3, 4 (Palæoniscus
 jacksoni Dawson a syn.)
 1910 B, 22, pls iv-iv (E. browni).
 Young, G. A. 1913 A, 356
 Mississippian (Albert), New Brunswick.

Elonichthys cupidineus Lambe.

- Lambe, L. M. 1916 B, 39, pl. II
 Raymond, P. E. 1925 B, 553.
 Triassic? (Upper Banff); Alberta

Elonichthys disjunctus Eastman.

- Eastman, C. R. 1903 B, 191, 194, pl. III, fig 31.
 Pennsylvanian (Mazon Creek); Illinois.

Elonichthys elegans (Emmons).

- Hay, O. P. 1902 A, 368
 Lyman, B. S. 1894 A, 212 (Radiolepis)

- Wherry, E. T. 1912 A, 377 (Radiolepis. This
 species?).

Elonichthys elli Lambe.

- Lambe, L. M. 1909 A, 171, figs. 5, 6
 Lambe, L. M. 1910 B, 29, pl. x, figs 1-6
 Young, G. A. 1913 A, 356
 Mississippian (Albert); New Brunswick

Elonichthys hypsilepis Hay.

- Hay, O. P. 1902 A, 368
 Andrae, A. 1903 B, 442
 Eastman, C. R. 1902 B, 97
 1902 G, 541
 1903 B, 188, 194
 1917 A, 274, pl. ix, fig 3; pl. x, fig 3.
 Merrill, G. P. 1907 A, 11
 Pennsylvanian (Mazon Creek), Illinois

Elonichthys peltigerus Newb.

- Hay, O. P. 1902 A, 368 (E. peltigerus, E
 macropterus)
 Andrae, A. 1903 B, 442
 Eastman, C. R. 1902 B, 97 (Amblypterus mac-
 ropterus a syn.)
 1902 G, 541
 1903 B, 194.
 1917 A, 274
 Newberry, J. S. 1878 D, 810 (Palæoniscus)
 Price, P. H. 1927 A, 226, text-fig 5 (Pal-
 æoniscus)
 Pennsylvanian; Illinois, Ohio

Elonichthys perpennatus Eastman.

- Eastman, C. R. 1902 G, 539, 541, fig 4
 1902 B, 97
 1903 B, 190, 194 pl. v, fig 49
 1917 A, 275, pl. ix fig 1
 Pennsylvanian (Mazon Creek), Illinois

Elonichthys sp. indet.

- Woodward, A. S. 1900 E, 203 Carboniferous
 (Horton), Nova Scotia

SPHÆROLEPIS Fritsch. Type *S. kounoviensis* Fritsch.

- Fritsch, A. 1877, Sitzungs-b. böhm. Ges. Wiss.,
 46
 Jordan, D. S. 1919 B, 389 (Sphærolepis)
 Hussakof, L. 1911 A, 170.
 Woodward, A. S. 1891 A, 523

Sphærolepis arctata (Cope).

- Hay, O. P. 1902 A, 364 (Peplorhina).

- Case, E. C. 1915 A, 96
 Cope and Matthew 1915 A, pl. III, fig 5
 (Peplorhina; Sphærolepis)
 Hay, O. P. 1900 A, 707 (Peplorhina)
 Hussakof, L. 1911 A, 171, pl. xxxi, figs. 1
 2, text-fig 54
 Pennsylvanian (Upper); Illinois Permian
 (Wichita?, Clear Fork?); Texas

ACROLEPIS Agassiz. Type *A. sedgwicki* Agassiz.

- Hay, O. P. 1902 A, 369.
 Agassiz, L. 1833 A, 476.
 1835 H, 218.
 1844 C, 267.
 Barkas, W. J. 1874 D, 548.
 Bonn, H. G. 1848 A, 9.
 1849 A, 662

- Raymond, P. E. 1925 B, 553
 Stensio, E. A. 1921 A, 149.
 1925 A, 88, 209.
 Traquair, R. H. 1890 G, 492
 1909 A.
 Woodward, A. S. 1924 A.
 Zittel and Koken 1911 A, 98

Zittel and Schlosser 1923 A, 99
Zittel and Woodward 1902 A, 77

Acrolepis? hortonensis Dawson.

Hay, O P 1902 A, 369
Lambe, L. M 1904 C, 18, 35, 43
Mississippian; New Brunswick

Acrolepis hussakofi, new species.

Hussakof, L 1916 A, 348, figs 1, 2 ('palaeoniscid fish')

PYRITOCEPHALUS Fritsch. Type *Palaeoniscus sculptus* Fritsch.

Fritsch, A 1895 A, 86
Hussakof, L 1911 A, 173

O'Hara C C 1916 A, 347 ('fishes').
Permian (Minnekahta); South Dakota

Acrolepis latus Lambe.

Lambe, L M 1916 B, 42, pl. iii.
Raymond P. E 1925 B, 553.
Stensio, E A 1921 A, 149
Triassic? (Upper Banff); Alberta.

Pyritocephalus sp. indet.

Care E C 1915 A, 96
Hussakof, L 1911 A, 173, text-fig. 55
Permian (Wichita?, Clear Fork?); Texas.

PLATYSOMATIDÆ.

Unless otherwise indicated the authors, as cited use the name *Platysomidæ*

Hay O P. 1902 A, 369
Abel, O 1912 F 488 ('platysomiden')
1919 A 190, figs 147, 148
1922 F, 77
Allis, E P 1905 A 490
1919 A 377
Ardt T 1907 D 674
Bridge T W 1878 A, 722
1904 A 487
Bronn, H G 1849 A S30, seq (lepidoiden)
Claus, V. 1875 A 592
Cope E. D 1891 N, 20
Cunningham J T 1897 A 495
Dean, Gudgey Henn 1923 A 622
Eastman C R 1898 E 183 ('platysomiden').
1907 B, 23 (Platysomatidæ)
1908 A, 255.
1917 A 276 (Platysomatidæ)
Fitzinger L J 1873 A, 52 (Platysomi)
Gill T 1881 A, 371
Goodrich, E. S 1908 A, 763
1909 A, 312
Gregory, W. K. 1907 D, 448

Hornes, R 1886 A, 554
Jordan, D S 1905 A ii, 14, 586
1907 B 250 760
1923 A 112
Klaer J 1924 A, 97
Lutken C 1871 A 289 ('platysomiens')
Pompeck J F. 1913 A 1141
Schlosser M 1917 A, 134, 147 ('platysomiden')
Seapin H 1896 A 159 182
Sewertzoff, A N. 1923 B
1926 A 451 (Platysomatidæ)
Stemmann, G 1907 A 410
1927 A 48 ('platysomiden')
Stensio E A 1921 A, 250, 271
1925 A 119, 209
Woodward, A S 1888 M, 142
1898 A, 87
1906 C, 276
1911 C, 46 ('platysomids')
1921 C, 181
1924 A, 114
Zittel and Koken 1911 A, 100
Zittel and Schlosser 1923 A, 100
Zittel and Woodward 1902 A, 78

CHIRODUS McCoy. Type *C. pes-ranae* McCoy.

Hay, O P 1902 A, 369.
Abel, O 1908 E, 415 (Cheirodus)
1912 F, 448, fig. 339 (Cheirodus)
Barkas, W J 1874 D, 545 (Cheirodus)
Boken, H 1887 A, 78 (Cheirodus)
Bridge, T W. 1904 A, 488, fig 286 (Cheirodus)
Eastman, C R 1917 A, 276 (Cheirodus).
Etheridge, R 1906 A, 130 (Cheirodus)
Jordan, D S 1919 B, 239 (Cheirodus)
1923 A, 112 (Cheirodus)
Stensio, E. A. 1925 A, 211, 212 (Cheirodus).
Woodward, A S 1924 A, 114, fig 6 (Cheirodus).
Zittel and Koken 1911 A, 101, fig 175
Zittel and Schlosser 1923 A, 100, fig. 165 (Cheirodus).

Chirodus acutus Newberry.

Hay, O P 1902 A 369.
Pennsylvanian, Ohio.

Chirodus orbicularis (Newb. and Worth.).

Hay, O P 1902 A 369 (Platysomus).
Eastman, C. R. 1902 B, 97 (Platysomus)
1902 G, 541 (Platysomus).
1903 B, 193, 194 (Cheirodus)
1917 A, 276, pl. ix, fig. 2 (Cheirodus).
Pennsylvanian (Mazon Creek); Illinois

PLATYSOMUS Agassiz. Type *P. gibbosus* (Agassiz).

Hay, O. P. 1902 A, 369
Agassiz, A. 1877 A, 124.
Agassiz, L. 1835 B, 345

Agassiz, L. 1835 H, 208.
1844 C, 267.
Allis, E P 1919 A, 377.

- Barkas, W. J. 1874 D, 552.
 Bridge, T. W. 1904 A, 488.
 Bronn, H. G. 1848 B, 994.
 1849 A, 658.
 Deecke, W. 1913 A, 80.
 Eastman, C. R. 1917 A, 276.
 Husakof, L. 1911 A, 173.
 Jordan, D. S. 1919 B, 181 (Type *Stromateus gibbosus* Blv.)
 Lambe, L. M. 1914 E, 17.
 Murchison, R. I. 1854 A, 312, fig. 57.
 Raymond, P. E. 1925 B, 553.
 Scapin, H. 1896 A, 159, pl. ix, fig. 5.
 Sewertzoff, A. N. 1926 E, 565.
 Steinmann, G. 1927 A, 58, 68, text-fig. 16.
 Stensio, E. A. 1921 A, 251.
 Traquair, R. H. 1900 C, 507.
 Wagner, J. A. 1860 A, 81.
 Woodward, A. S. 1898 B, 87, fig. 64.
 1906 C, 277, fig. 10.
 1924 A, 114.
 Woodward, H. 1904 B, 141.
 Zittel and Koken 1911 A, 101.
 Zittel and Schlosser 1923 A, 101, fig. 165.
 Zittel and Woodward 1902 A, 79.

***Platysomus albertensis* Lambe.**

- Lambe, L. M. 1916 A, 195 (No description)
 Permian, Alberta

***Platysomus canadensis* Lambe.**

- Lambe, L. M. 1914 E, 17, pl. 1; text-fig.
 1915 B, 121.
 1916 B, 36.
 Raymond, P. E. 1925 B, 553.
 Stensio, E. A. 1921 A, 251, 264.
 Triassic? (Upper Banff); Alberta.

***TURSEODUS* Leidy.**

- Hay, O. P. 1902 A, 369.
 Stensio, E. A. 1921 A, 149.

***Platysomus circularis* Newb. and Worth.**

- Hay, O. P. 1902 A, 369.
 Eastman, C. R. 1902 G, 541.
 1902 D, 97.
 1903 B, 190, 194.
 1917 A, 276.
 Husakof, L. 1908 A, 87.
 Pennsylvanian (Mazon Creek); Illinois.

***Platysomus lacovianus* Cope.**

- Hay, O. P. 1902 A, 369.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 1903 B, 194.
 1917 A, 276.
 Husakof, L. 1908 A, 87.
 Merrill, G. P. 1907 A, 16.
 Pennsylvanian (Mazon Creek), Illinois.

***Platysomus palmaris* Cope.**

- Hay, O. P. 1902 A, 369.
 Reede, J. W. 1907 A, 120.
 Case, E. C. 1915 A, 96.
 Eastman, C. R. 1917 A, 276.
 Husakof, L. 1908 A, 88.
 1911 A, 173, pl. xxx, fig. 7, text-fig. 56.
 Pennsylvanian (Upper), Oklahoma, Illinois?
 Permian (Wichita Clear Fork), Texas-
 (Emul), Oklahoma.

***Platysomus* sp. indet.**

- Phillips, W. B. 1912 A, 18, fig. 4 (This genus?)
 Permian (Wichita), Texas.
 Wegman, C. H. 1915 A, 25. Permian (Wichita);
 Oklahoma.

Type *T. acutus* Leidy.

***Turseodus acutus* Leidy.**

- Hay, O. P. 1902 A, 369.
 Hawkins, A. C. 1914 A, 153.
 Laman, B. S. 1894 A, 212.
 Triassic (Newark), Pennsylvania.

DICTYOPYGIDÆ Hay.

- Unless otherwise indicated the authors, as quoted, use the family name *Catopteridæ*.
 Hay, O. P. 1902 A, 370 (*Dictyopygidæ*).
 Budge, T. W. 1904 A, 488.
 Dean, Gudge, Henn 1923 A, 623.
 Deecke, W. 1926 A, 195 ("catopteriden")
 Eastman, C. R. 1905 B, 95.
 1911 A, 18, 28, 46.
 1914 A, 139.
 1917 A, 279.
 Goodrich, E. S. 1909 A, 313.
 Gregory, W. K. 1907 D, 448.
 Jordan, D. S. 1905 A, n, 14, 16 (*Dictyopygidæ*)
 1907 B, 252, 760 (*Dictyopygidæ*)

- Jordan, D. S. 1923 A, 112.
 Pompeckj, J. F. 1913 A, 1140.
 Regan, C. T. 1904 A, 332.
 Schlosser, M. 1917 A, 135 ("catopteriden")
 Sewertzoff, A. N. 1923 B.
 1926 A, 451.
 Stensio, E. A. 1921 A, 253, 271.
 1925 A, 119, 210, 224.
 Swannerton, H. H. 1925 A, 87.
 Traquair, R. H. 1900 C, 507.
 Watson, D. M. S. 1925 A, 866 ("catopterids")
 Zittel and Koken 1911 A, 102.
 Zittel and Schlosser 1923 A, 101.
 Zittel and Woodward 1902 A, 79.

REDFIELDUS Hay. Type *Catoperus gracilis* Redfield.

- Unless otherwise indicated the authors, as quoted, employ the name *Catopterus*.
 Hay, O. P. 1902 A, 370 (*Redfieldus*).
 Abel, O. 1919 A, 189.

- Ardt, T. 1923 A, 493.
 Bronn, H. G. 1849 A, 658.
 Deecke, W. 1913 A, 74.
 1926 A, 194.

- Eastman, C R 1905 B, 68, 95
 1911 A, 47, fig 7
 1914 A, 144
 1917 A, 279
 Eaton G F 1903 A, 267.
 Emerson, B K 1898 A, 400
 Heilprin, A. 1887 A, 302
 Jordan, D S. 1905 A, II, 16 (Redfieldius)
 1907 B 252 (Redfieldius)
 1920 C 486 (Redfieldius)
 Rice and Gregory 1906 A, 172
 Rogers, H D 1844 A, 251
 Stensio, E A 1921 A, 253, 267
 Swinnerton H H 1925 A, 96
 Traquair, R H 1900 C, 507.
 Woodward A S 1898 B, 87
 Zittel and Koken 1911 A 102
 Zittel and Schlosser 1923 A 102
 Zittel and Woodward 1902 A, 79

Redfieldius anguilliformis (W. C. Redfield).

- Hay O P 1902 A, 370
 Lyman B S 1894 A, 209 (Catopterus).
 Triassic (Newark), Connecticut, New Jersey

Redfieldius gracilis (J. H. Redfield).

- Hay O P 1902 A, 370
 Bayley Kummel and Salisbury 1914 A 13 (Catopterus)
 Cross W 1899 A 3 (Catopterus This species?)
 1899 B 3 (Catopterus This species?)
 Eastman C R 1905 B 96 pl. xiii (Catopterus)
 1911 A, 28 48 pls ix-xi (Catopterus)
 1914 A 142 pls xxx xxxi (Catopterus)
 1917 A 280 pl xii figs 1 2; pl. xiii, figs 1 2 (Catopterus)
 Hawkins A C 1914 A, 153 (Catopterus)
 Hobbs W H 1901 A, 55 (Catopterus).
 Huene F 1922 H, 150 (Catopterus)
 1926 E 2 (Catopterus. This species?)
 Hussakof L 1908 A 63 (Catopterus)
 Hussakof and Bryant 1919 A 192 (Catopterus)

DICTYOPYGE Egerton. Type *D. macrura* (Redfield).

- Hay O P 1902 A, 370
 Arldt T 1923 A 493
 Barkas, W J 1874 D, 550
 Deckert, W 1913 A, 74
 1926 A, 186
 Eastman, C R 1905 B 99
 1911 A, 55
 1917 A 278
 Hussakof and Bryant 1919 A, 192.
 Stensio, E A. 1921 A, 267
 Swinnerton, H H 1925 A, 94
 Traquair, R H 1900 C, 507
 Zittel and Koken 1911 A, 102
 Zittel and Schlosser 1923 A, 103.

- Lull, R S 1917 D, 109 (Catopterus).
 Lyman B S. 1894 A, 207 208, 209, 212, 214 (Catopterus).
 Moodie, R L 1918 B, 390 (Catopterus).
 1923 B, 329 (Catopterus).
 Smith J H 1900 A, 498 (Catopterus).
 Triassic (Newark); Connecticut, New Jersey.
 (Dolores), Colorado?

Redfieldius minor (Newb.).

- Hay O P. 1902 A, 370.
 Lyman, B S. 1894 A, 209 (Catopterus).
 Triassic (Newark); Connecticut.

Redfieldius ornatus (Newb.).

- Hay, O P. 1902 A, 370.
 Lyman, B S 1894 A, 209 (Catopterus)
 Triassic (Newark); Connecticut.

Redfieldius parvulus (W. C. Redfield).

- Hay O. P 1902 A, 370
 Lyman B. S 1894 A, 214 (Catopterus)
 Triassic (Newark); Connecticut

Redfieldius redfieldi (Egerton).

- Hay O P 1902 A, 370
 Bayley, Kummel and Salisbury 1914 A, 13 (Catopterus)
 Eastman C R 1905 B, 98 (Catopterus)
 1911 A 28 51, figs 5, 6 (Catopterus)
 1914 A, 142 (Catopterus)
 Hussakof L 1908 A, 64 (Catopterus)
 Hussakof and Bryant 1919 A, 192 (Catopterus).
 Lull, R S 1917 D, 109 (Catopterus)
 Lyman, B S 1894 A 209 (Catopterus)
 Philipp and Fiech 1903 A 12, pl vii (Catopterus)
 Rice and Gregory 1906 A, pl xvii (Catopterus)
 Triassic (Newark), Connecticut, New Jersey

Redfieldius sp. indet.

- Newberry, J S 1888 A, 61 (Catopterus). Triassic (Newark), New Jersey.
 Hussakof, L. 1908 A, 65 (Catopterus) Triassic (Newark); New Jersey

Dictyopyge Egerton. Type *D. macrura* (Redfield).

Dictyopyge macrura (W. C. Redfield).

- Hay O P 1902 A, 370.
 Eastman C R 1905 B, 99.
 1911 A, 28, 55
 Goodrich, E S 1909 A, 314, fig 292.
 Hussakof and Bryant 1919 A, 192, pls xxiv, xxvii
 Lull, R S 1917 D, 109.
 Lyman, B S 1894 A, 208
 Redfield, J H. 1888 A, 64 (Catopterus).
 Rogers, W. B 1843 A, 315 (Catopterus).
 1884 A, 315 (Catopterus).
 Shaler and Woodworth 1899 A, 431
 Triassic (Newark); Virginia.

Suborder ACIPENSERIFORMES, new name.

- Goodrich E S 1909 A, 315 (Acipenseroides) |

DIPHYODONTIDÆ Jordan.

- Jordan, D. S. 1923 A, 113 |

DIPHYODUS Lambe. Type *D. longirostris* Lambe.

Lambe, L. M. 1902 A, 30

Cockerell, T. D. A. 1919 A, 172.

Hay, O. P. 1910 B, 296.

The systematic position of this genus is extremely doubtful.

Diphyodus longirostris Lambe.

Lambe, L. M. 1902 A, 30, pl. xv, figs. 18, 19

Bowen, C. F. 1915 A, 118, 148-150.

Brown, B. 1914 E, 378

Cockerell, T. D. A. 1908 C, 162.

1919 A, 172

Hatcher, J. B. 1905 B, 60

Lambe, L. M. 1904 C, 22, 36, 45 (*Diphyodus*).

1907 B, 179

Matthew, W. D. 1916 A, 485.

Osborn, H. F. 1902 I, 11, 16.

Peale, A. C. 1912 A, 754

Steno, E. A. 1925 A, 9

Upper Cretaceous (Belly River); Alberta (Judith River), Montana. (Lance), Wyoming.

Diphyodus sp. indet.

Bowen, C. F. 1915 A, 118

Brown, B. 1907 A, 842

Cretaceous (Hell Creek), Montana

BELONORHYNCHIDÆ Woodward.

Woodward, A. S. 1888 K, 356.

Abel, O. 1919 A, 194.

Jordan, D. S. 1923 A, 113

Nicholson and Lydekker 1889 A, 988

Raymond, P. E. 1925 B, 551.

Stenmann, G. 1927 A, 75

Woodward, A. S. 1895 A, 12.

1898 B, 88

Zittel and Koken 1911 A, 97, fig. 166.

Zittel and Schlosser 1923 A, 95.

BELONORHYNCHUS Bronn. Type *B. striolatus* Bronn.

Bronn, H. G. 1858, Neues Jahrb. Min., etc., 12

Abel, O. 1919 A, 195, fig. 151.

Nicholson and Lydekker 1889 A, 988

Woodward, A. S. 1888 K, 354.

1895 A, 9.

1898 B, 88, fig. 65

Zittel, K. A. 1890 A, 265, fig. 270

Zittel and Koken 1911 A, 97, fig. 166

Zittel, Eastman etc 1902 A, 74 fig. 133.

Belonorhynchus dayi Raymond.

Raymond, P. E. 1925 B, 551, fig. 1.

Triassic (Upper Banff), Alberta

ACIPENSEROIDÆ, new form.

Gregory, W. K. 1907 D, 448, 462 (*Acipenseroides*).

Swertzoff, A. N. 1926 A, 523, 528 (*Chondrosteoides*).

Traquair, R. H. 1877 B, 8 (*Acipenseroides*)

ACIPENSERIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 98

Hay, O. P. 1902 A, 371.

Abel, O. 1912 F, 518

1919 A, 197

Agassiz, L. 1835 B, 331 (*Sturione*).

Aldrich, T. 1907 D, 635.

1912 A, 716, 762

1923 A, 492 (*acipenseriden*)Beer, G. R. 1925 A, 671 (*sturgeons*)Berg, L. S. 1904 A, 664 (*acipenseriden*)

Bonaparte, C. L. 1833 B, 1202

1836 B, 131

Brauer, H. 1901 B, 201, 236 (*acipenseriden*)

Bridge, T. W. 1896 A, 534.

1904 A, 489, 492, 729

Carter, J. T. 1905 A, 129.

Claus, V. 1875 A, 595 (*Acipenserini*).

Cockerell, T. D. A. 1919 A, 171

Collings, W. E. 1894 A, 528.

1895 D, 82.

Cope, E. D. 1891 N, 21.

Cunningham, J. T. 1912 A, 246

Cuvier, G. 1805 A (*sturgeons*)Davidoff, M. 1879 A, 489 (*acipenserinen*)

Dean, Guder, Henn 1923 A, 398, 623.

Dornbrowsky, B. A. 1918 A, 203, 204

Dormitzer, M. 1852 A, 63 (*störe*)

Duméril, A. 1870 A, 86, pls. xv-xix.

Eastman, C. R. 1908 A, 256 (*Acipenseridæ*).Elmer, V. 1896 A, 135 (*acipenseriden*)

Filatoff, D. 1907 A, 309

Fitzinger, L. J. 1873 A, 52 (*Acipenser*)Fuhninger, M. 1902 A, 186 (*acipenseriden*)Gegenbaur, C. 1879 A, 521 (*störe*)

Gill, T. 1875 B, 252

Goetsch, W. 1920 A, 514 (*acipenseriden*)

Godrich, E. S. 1909 A, 318

Gregory, W. K. 1907 D, 448

Haeckel, E. 1868 A, 445 (*Acipenserides*)Hase, A. 1907 A, 656 (*sturionen*)Heckel, J. 1850 A, 366 (*sturionen*)1851 A, 219 (*Acipenserini*)

Hemig, E. 1906 A, 173

Hoernes, R. 1886 A, 549

Jackel, O. 1906 C, 157 (*störe*)1906 D, 180 (*Acipenseroides*)1919 A, 104 (*acipenseriden*)1926 D, 70 (*störe*)

Jordan, D. S. 1905 A, II, 18, 555

1907 B, 254, 761.

1923 A, 113

Jordan and Gilbert 1882 A, 84.

Knaer, J. 1924 A, 97, 108 (*Acipenseroides*).

Kindred, J. E. 1919 A, 36.

Kingsley, J. S. 1885 A, 92

Kostlin, O. 1844 A (*störe*)Kurz, — 1925 A, 37 (*acipenseriden*)

Leunis and Ludwig 1883 A, 771.

- Luther, A 1913 A, 6 ("acipenseriden")
 Lutken, C 1871 A 293 ("esturgeons").
 Meek, A 1916 A 48
 Meissner W 1907 A, 465.
 1907 B, 5.
 Meunier, S 1903 A, 774 ("esturgeons").
 Owen, R 1845 B, 68 (Sturionidæ).
 1848 B, 86 ("sturgeons")
 1866 A 12, 41, 246, 478 (Sturionidæ)
 Parker, W K 1881 C, 71
 1888 C, 399 ("sturgeons").
 1890 A, 62
 Pompeckj, J F 1913 A, 1139 (Acipenseridæ)
 1926 A 71
 Rahl, C 1901 A 475, 479 ("store")
 Rauther, M 1913 A, 1099
 Richardson J. 1836 A 278 (Sturionidæ)
 Sagenohl M 1883 A ("acipenseriden")
 Sewertzoff, A N 1923 A, 400 ("acipenseriden").
 1923 B
 1924 A, 578 ("sturgeons")

ACIPENSER LINN. Type *A. sturio* Linn.

- Hav, O P 1902 A, 371
 Abel, O 1912 F 658
 1919 A 23, figs 2, 14
 Adams, L A 1919 A, 68 pl. 1.
 Ahlborn F 1896 B, 1 ("stor")
 Alessandrini, A 1849 A, 377, pl. xxiv, fig. 4.
 Allis E P 1897 A, 19
 1898 B 93
 1903 A, 662
 1905 A, 478
 1909 A, 213
 1915 A
 1922 C, 13
 1925 A, 77.
 1926 A 166
 Baidelchen, K 1901 A 66 ("store")
 1903 A, 22 ("store")
 Baudelot, E 1873 A, 94 (Acipenser)
 Beci G R 1924 C, 337
 1925 A 671, figs 1-20
 1926 A 277, figs 14-19, 110, 118, 119
 Berg L S 1904 A, 666
 Bliss, R 1875 A 386 ("sturgeon")
 Brandt, J F 1865 A, 7
 Braus H 1901 B, 201, pls. xxv, xxvi, xxvii,
 xxix
 1906 A, fig. 197
 1919 A, 2, fig. 13
 Bridge T W 1878 A, 689 717, text-fig
 1896 A, 534
 1904 A 492, 729
 Bronn, H G 1848 A, 7
 1849 A, 653.
 Collinge W E 1894 A, 521
 1895 D, 80 (Acipenser)
 Connell A 1835 A, 301.
 Cunningham, J T 1897 A 493 ("sturgeon")
 Cuvier G 1815 A 125 ("esturgeon")
 Davidoff M 1879 A, 487, fig. 7.
 Dean B. 1895 C, 734
 1896 D, 338
 Dean Gudger, Henn 1923 A, 667.
 Dendy A 1907 A, 295
 Derjugin K. M 1909 A.

- Sewertzoff A N. 1925 A, 274 ("acipenseriden").
 1926 A 514, 523
 1926 B, 548
 1926 C, 42 ("acipenseriden")
 1926 E 556
 Stammus H 1854 A (Acipenserini)
 Stenmann, G 1927 A, 80 ("acipenseriden").
 Stensio E A. 1925 A, 14, 176 216, 224
 1925 B, 162
 Stephan, P 1900 A, 291, 319 ("acipenseridés").
 Stromer E 1925 B 357 364
 Trouessart, F L 1906 A, 212
 Wallace A R 1876 A, 11, 459 (Acipenseridæ)
 Watson D M S 1925 A 815 824 863, 864
 Whitehouse R H 1910 B, 593
 Woodward, A S 1911 C, 46 ("sturgeons")
 1924 A 113
 Zittel and Koken 1911 A, 95 (Acipenseroides).
 Zittel and Schlosser 1923 A 95
 Zittel and Woodward 1902 A, 74
 Zograf, N 1887 A, 70

- Derjugin, K M. 1910 A, 629
 Dollo L 1889 E, 152 ("esturgeon")
 1904 C, 235
 Dombrowsky, B A 1918 A 201, 204, figs 6-8.
 Dunnéril A 1856 A, 156 ("esturgeon")
 1870 A, 20 84
 Edgeworth, F H 1925 A, 240
 1926 A, 178, figs 4-12
 Eichwald, E 1832 A, 886 ("stor")
 Elliott, A I M 1907 A, 648 (Acipenser)
 Fitzinger and Heckel 1836 A, 261, pls. xxv-xxx
 Frome, A 1905 A, 156 ("esturgeon")
 Gaupp, E 1897 A, 537.
 1898 B, 845, 850
 1905 D, 900
 1906 B
 1911 A 419
 Gegenbaur, C 1866 A, 125 ("store").
 1867 A, 60 ("store").
 1867 B, 420, pl. ix, fig. 20
 1879 A, 523
 Gehel C G 1855 A, 113 (Acipenser).
 Goetsch, W 1920 A, 514
 Goette A 1901 A, 552.
 Goodrich, E S 1901 A, 314, fig. C
 1904 A, 479, fig. 3
 1906 A, 347.
 1909 A, 505, figs
 Gregory, W K 1904 A, 57
 1915 D, 347, fig. 4
 Hague, F. 1924 A, 274.
 Haller, B 1906 A, 255
 Hamburger, R 1904 A 75, 82
 Hase, A 1913 A, 147, fig. 68
 Hase, C 1893 C, 76, pl. v
 Heckel, J 1851 A, 219
 Heilprin, A. 1887 A, 68, 69 (Acipenser).
 Hoeven, J 1822 A
 Huxley T H 1863 F, 425, figs 35, 36.
 1876 E, 118
 Innes, A. D 1904 A, 33.
 Jaekel, O 1902 C, 610 (Acipenser)
 1906 D, 181, figs 4, 6.

- Jackel, O. 1913 A, 85 ("store").
 1921 A, 222, fig 4
 1926 A, 161, 171
 1926 B, 43 ("store")
 1926 D, 70
 1928 A, 43 ("store")
- Jordan, D. S. 1905 A, u, 18, 555
 1907 B, 254.
- Jordan and Evermann 1917 A, 11.
 Jordan and Gilbert 1882 A, 85
 Kesteven, H. L. 1922 A, 314.
 1926 A, 139
- Kner, J. 1924 A, 97, 109, figs. 43, 48
- Kingsley, J. S. 1925 A, 28, 96, 99, 100, 230, figs 28, 102, 106, 243.
- Klaatsch, H. 1890 A, 146, 245
 1893 B, 657 ("store")
 1893 C, 181 (Accipenser).
- Klem, E. E. 1868 A (Accipenser)
- Kostlin, O. 1844 A ("stor").
- Kupffer, C. 1893 A, 518.
- Kurz, — 1925 A, 36-68, figs 1-9
- Lakjer, T. 1927 A, 279, fig. 103
- Lebedinsky, N. G. 1917 A, 315.
- Leunis and Ludwig 1883 A, 772.
- Luther, A. 1913 A, 15, figs. 4, 6, 7, 10
 1913 B, 6, figs 1, 2, 6, 7, 23, 24.
- McMurrich, J. P. 1883 A, 634.
- Meckel, J. F. 1825 A ("store")
- Mecke, A. 1916 A, 49
- Meussner, W. 1907 A, 465
 1907 B 1, pls 1, u, text-figs
- Mivart, St. G. 1879 B, 540 ('sturgeon')
- Mohr, R. 1851 A, 357, pl. xv
- Moller, S. 1897 A, pls 1-x
- Nauck, E. T. 1926 B, 73
- Norman, E. W. 1926 A, 455
- Owen, R. 1848 B, 101
 1866 A, 74, 196, figs 62, 125
- Parker, W. K. 1873 B, 254 (Accipenser)
 1881 C, 71
- Parker and Bettany 1877 A, 86 ('sturgeon')
- Pehrson, T. 1922 A, 9
- Pice, P. H. 1927 A, 279, text-fig 2
- Priem, F. 1908 B, 132, pl. iii, fig 1, pl. iv, figs 1-4
- Putter, A. 1923 A, 220
- Rabl, C. 1901 A, 481.
- Rauther, M. 1913 A, 1068, figs 19, 21.
- Reynolds, S. H. 1897 A, 531, fig 18
- Ridewood, W. G. 1896 A, 389, fig. 18
 1921 A, 329
- Ryder, J. 1885 E, 95
- Salensky, W. 1899 B, 298.
- Schaumslund H. 1906 A, 430
- Schlösser, M. 1917 A, 142
- Schmalhausen, J. J. 1912 A, 525, 558, pl. xv
 1913 A, 16
 1913 B, 742, 747.
 1913 C, pls 1, v
 1917 A, 108
 1923 A, 538, fig 4.
- Sewertzoff, A. 1896 A, 219, 274, pls iv, v.
 1918 A, 206.
 1923 B, figs 1, 3, 4
 1926 A, 451-540, figs 1-37.
 1926 B, 547, figs 1-23
- Sewertzoff, A. 1926 C, 42.
 1926 E, 523, figs 1-38.
- Shann, E. W. 1919 A, 556
- Shepherd, C. E. 1910 B, 298.
- Stadtmüller, F. 1926 A, 160, fig 6.
- Stannius, H. 1854 A.
- Stanton and Hatcher 1905 A, 50
- Starks, E. C. 1916 A, 12.
- Stensio, E. A. 1921 A, 273.
 1925 A, *passim*, text-fig 15
 1925 B, 106.
- Stephan, P. 1900 A, 339
- Stromer, E. 1925 B, 358
- Sushkin, P. P. 1927 A, 268, fig. 1
- Taylor, H. F. 1916 A, 298.
- Traquair, R. H. 1912 A, 168
- Wagner, R. 1843 A.
- Wallace, A. R. 1876 A, u, 459 (Accipenser)
- Watson, D. M. S. 1923 A, 471.
 1925 A, 831, 848, 850, 864
- Weber, E. H. 1821 A, 1065.
- Whitehouse, R. H. 1910 B 593, pl. xlvii, fig 2
 1918 A, 139.
- Wiedersheim, R. 1880 C, 128.
- Wiman, C. 1918 A, 93 fig. 7.
- Woodward, A. S. 1890 G, 104, figs 4, 8
 1922 C, 87, fig 95
- Zittel and Koken 1911 A 95 (Accipenser)
- Zittel and Schlosser 1923 A, 95, figs 18-21
- Zograf, N. 1887 A, 70
 1896 B, 320

Acipenser albertensis Lambe.

- Lambe, L. M. 1902 A, 29, pl. xxi, fig 9
- Bowen, C. F. 1915 A, 118, 148, 149, 150
- Brown, B. 1914 E, 378
- Cockerell, T. D. A. 1908 C, 163
 1919 A, 172
- Hatcher, J. B. 1905 B, 69
- Lambe, L. M. 1904 C 21, 36, 43
 1917 E, 293 (This species?)
- Matthew, W. D. 1916 A 485 (Accipenser)
- Osborn, H. F. 1902 I, 11 16
- Peale, A. C. 1912 A, 754 (Accipenser)
- Stromer, E. 1925 B 357
- Williston, S. W. 1902 K, 953
 Upper Cretaceous (Belly River), Alberta
 (Judith R.), Montana (Lance), Wyoming

Acipenser medirostris Ayres.

- Ayres, W. O. 1854, Proc. Calif. Acad. Sci., 1, 15
- Hay, O. P. 1927 D, 216
- Jordan, D. S. 1907 A, 128 (This species?)
- Jordan and Evermann 1896 A, 104
- Miller, L. H. 1912 A, 71 (This species?)
- Sinclair, W. J. 1904 A, 18 (This species?)
 Recent; Pacific coast north of San Francisco Pleistocene?, California?

Acipenser ornatus Leidy.

- Hay, O. P. 1902 A, 371.
 Miocene, Virginia

Acipenser sturio Linn.

- Linnæus, C. 1758 A, 237.
 Hay, O. P. 1923 A, 311

Jordan and Evermann 1896 A, 105

Ledy J 1889 H, 19

Recent, Atlantic coasts of Europe and
America Pleistocene? Pennsylvania?

Acipenser sp. indet.

Sternberg C M 1926 A 104 Upper Creta-
ceous (Edmonton), Alberta.

Suborder POLYODONTIFORMES, new name.

Gill, T 1872 C, 22 (Selachostomi)

1909 B 838 (Selachostomi)

Jordan D S 1905 A, n, 20 591 (Selachostomi)

1907 B 256 761 (Selachostomi)

1923 A, 113 (Selachostomi)

POLYODONTIDÆ Bonaparte.

Bonaparte C L 1838 B 131

Hay O P 1902 A 371

Abel O 1912 F 476 (Polyodon)

1919 A 196

Adams L A 1919 A 66 pl 1 (Polyodon)

Allis E P 1903 A 659 (Polyodon)

1915 A (Polyodon)

1918 B 25 260 (Polyodon)

1919 A 370 (Polyodon)

Ardt T 1907 D 682 (Spatularidæ)

1912 A 648 650 658 662, 670 678, 690 716
762

1923 A 492 (polyodontiden)

Bonaparte C L 1840 A 47

Bridge T W 1878 A 683 pls l-xlvii (Polyodon)

1896 A 536

1897 B 722 fig 1 (Polyodon)

1904 A 489 491 751

Collins W E 1894 A 528

1895 C (Selachoidæ)

1895 D 82

Cope E D 1891 N 21

Cunningham J T 1912 A 246

Davidoff M 1879 A (Polyodon)

Dean Gudgeon Hem 1923 A 623

Diménil A H A 1870 A 271 (polyodon-
tidæ)

Eastman C R 1908 A 256

Egerton P G 1858 B 233 (Chondrosteus)

Forbes W A 1879 A 364 (Polyodon)

Furbinger M 1902 A 186 (polyodontiden)

Gaupp L 1905 D 900 (Polyodon)

Gegenbaur C 1879 A 522 (Polyodon)

Gill T 1901 A 307 (Polyodon)

1905 A 659

Goodrich E S 1909 A 317

Günther A C 1881 A 687

Huxley T H 1863 F 425 fig 34 (Spatularia)

1876 E 116 (Polyodon)

Innes A D 1904 A 22 (Polyodon)

Jordan, D S 1905 A, n, 20, 587.

1907 B 256 761

Jordan, D S 1923 A, 113

Jordan and Gilbert 1882 A, 82.

Kesteven, H L 1926 A, 139 (Polyodon)

Kingslev, J S 1925 A, 32 fig 35 (Polyodon)

Kostlin, O 1844 A (Spatulariden)

Lakjer T 1927 A 289, fig 102 (Polyodon)

Leunis and Ludwig 1883 A, 773

Luther, A 1913 A, 8, figs 2, 3, 9, 10 (Polyodon).

1913 B 9 figs 3 5, 14 22 (Polyodon),

Meckel J F 1825 A (Polyodon)

Meek A 1916 A, 51

Meyner W 1907 B 32 (Polyodon)

Mivart St G 1878 B, 331 (Polyodon)

Owen, R 1845 B, 68 (Spatularia)

1848 B, 86 (Polyodon)

1866 A 39 612 (Planirostra)

1868 A 901 (Planirostra)

Rabl C 1901 A 479 (polyodontiden)

Rauther M 1913 A 1099

Reynolds S H 1897 A 32 66

Scharff, R F. 1911 A, 88 (Polyodon)

Schwartz A N 1923 B

1926 A 513 524

1926 E 560 (Spatularidæ)

Stannius H 1854 A (Spatularia)

Stensiö E A 1925 A, 120, 216 224 (poly-
odontids)

Stromer E 1925 B, 357, 358.

Traquair, R H 1912 A, 168

Wagner G 1904 A, 555

Wagner R 1843 A (Polyodon)

Wallace, A R 1876 A, n 459

Watson D M S 1925 A, 829, 850 864, figs
7 8 (Chondrosteus).

Whitehouse, R H 1910 B, 594, pl. xlvii fig 3

Wiedersheim R 1881 B, 327 (Polyodon)

Young J 1866 D 234 (Chondrosteus)

Zittel and Koken 1911 A, 96

Zittel and Schlosser 1923 A 95

Zittel and Woodward 1902 A, 74

Zugmayer N 1887 A 70 (Polyodon)

CROSSOPHILUS Cope. Type *C. magnicaudatus* Cope.

Hay O P 1902 A 372

Ardt T 1923 A 493.

Bridge T W 1904 A 492

Jordan D S 1920 C, 434 (Crossophilus)

Traquair R H 1900 C 507

1912 A 168

Zittel and Koken 1911 A, 96

Zittel and Schlosser 1923 A, 95

Zittel and Woodward 1902 A, 74

Crossophilus magnicaudatus Cope.

Hay, O P 1902 A, 372

Cockerell, T D A 1908 C, 162

Hussakof, L 1908 A, 69

Jordan D S 1905 A, n, 21

1907 B, 257

Eocene (Green River), Wyoming

Order PYCNODONTÆ Agassiz.

Unless otherwise indicated the authors, as cited, use the term *Pycnodont* for this order.

- Agassiz, L. 1832 A, 141 (Pycnodontæ).
 Hay, O P. 1902 A, 372
 Agassiz, L. 1833 A, 478 (Pycnodontæ).
 1844 C, 267 ("pynodontes")
 1844 D, 142 ("pynodontes").
 Bronn, H G. 1849 A, 780, seq (Pycnodontes).
 Carus, V. 1875 A, 592 (Pycnodontini).
 Deecke, W. 1913 A, 87 ("pynodonten")
 Diener, C. 1909 A, 49.
 Egerton, P. G. 1849 A, 329.
 1854 A, 369
 Fitzinger, L. J. 1873 A, 50 (Pycnodontes).
 Fowler, H. W. 1911 A, 145
 Frost, G. A. 1913 A, 219 (Dapedrus).
 Giebel, C. G. 1855 A, 111, 112, 113 (Pycnodontes)
 Gregorv, W. K. 1907 D, 448, 465
 Jordan, D. S. 1923 A, 114
 Kingsley, J. S. 1885 A, 94 (Pycnodontini)
 Hennig, E. 1906 A, 137 ("pyknodonten").

- Hennig, E. 1907 A, 36 ("pyknodonten").
 Hoernes, R. 1886 A, 552 (Lepidopleuridæ).
 Huxley, T. H. 1861 D, 448 ("pynodonts").
 1862 A, 1.
 1867 F, 167 (Pycnodonta).
 Jaekel, O. 1911 A, 69, 84
 Jordan D. S. 1905 A, II, 22
 1907 B, 258, 761.
 Lytken, C. 1868 C (Pycnodontes)
 Pompeckj, J. F. 1913 A, 1139, 1142
 Priem, F. 1908 B, 15 ("pynodontes")
 Regan, C. T. 1909 B, 76 (Pycnodontoides)
 Sauvage, E. 1867 A, 75 ("pynodontes").
 Stemmman, G. 1927 A, 17, 64 ("pynodonten").
 Stromer, E. 1905 C, 185 (Euganoides).
 1925 B, 348, 350, 365 (Pycnodonti)
 Woodward, A. S. 1893 F, 433, 487 ("pynodonts").
 1917 B, 385 ("pynodonts")
 Zittel and Koken 1911 A, 102
 Zittel and Schlosser 1923 A, 102

PYCNODONTIDÆ Owen.

- Owen, R. 1846 E, 50
 Hay, O P. 1902 A, 372
 Abel, O. 1912 F, 488 ("pynodontiden")
 1919 A, 205
 1922 F, 77
 Agassiz, L. 1835 B, 331 (Pycnodontes)
 1835 H, 225 (Pycnodontæ)
 Arldt, T. 1907 D, 678
 1923 A, 495 ("pynodontiden")
 Bridge, T. W. 1904 A, 498
 Cunningham, J. T. 1897 A, 498
 Dean, Gudge, Henn 1923 A, 398, 623
 Eastman, C. R. 1898 E, 183 ("pynodonts")
 Egerton, P. G. 1877 A, 54 ("pynodonts")
 Fowler, H. W. 1911 A, 145
 Goodrich, E. S. 1908 A, 767
 1909 A, 337
 Gregory, W. K. 1907 D, 448.
 1923 A, 238, 240
 Heckel, J. 1850 B, 143 ("pynodonten").
 Heilprin, A. 1887 A, 94.
 Hennig, E. 1906 A, 137
 Hermann, R. 1907 A, 195, fig 1 ("pynodonten")
 Hoernes, R. 1886 A, 553
 Jordan, D. S. 1905 A, II, 22
 1907 B, 258, 761

- Jordan, D. S. 1923 A, 114
 Leriche, M. 1910 A, 462, 465 ("pynodontidés")
 Leunis and Ludwig 1883 A, 776
 Lutken, C. 1871 A, 288 ("pynodontiens")
 Owen, R. 1866 A, 12, 378
 Priem, F. 1903 A, 403 ("pynodontes")
 Regan, C. T. 1923 B, 455, 456
 Sauvage, H. E. 1902 A, 542 ("pynodontes")
 Savonius, J. 1915 A, 368
 Schlosser, M. 1917 A, 135, 136, 138, 140, 142, 148
 ("pynodontiden")
 Seapin, H. 1896 A, 173, 184
 Stemmman, G. 1907 A, 411.
 Stromer, E. 1905 C, 185
 Watson, D. M. S. 1925 A, 866 ("pynodonts")
 Woodward, A. S. 1893 F, 433.
 1898 B, 101
 1907 A, 194.
 1912 A (1909) 162
 1921 A, 181.
 1921 C, 181.
 1922 C, 91
 Zittel and Koken 1911 A, 102 (No family name)
 Zittel and Schlosser 1923 A, 102 (No family name)
 Zittel and Woodward 1902 A, 85

MACROMESODON Blake. Type *Gyrodus macropterus* Agassiz.

- Blake, J. F. 1905 A, 32
 Unless otherwise indicated the authors, as quoted apply to this genus the name *Mesodon*.
 This is, however, preoccupied.
 Hay, O P. 1902 A, 372 (Typodus; preoccupied)
 Arldt, T. 1923 A, 495
 Deecke, W. 1913 A, 53.
 Giebel, C. G. 1855 A, 112.
 Goodrich, E. S. 1909 A, 337, 339, fig. 319
 Gorjanovic-Kramberger, K. 1905 A, 219.
 Heckel, J. J. 1850 A, 361, 365.
 Hennig, E. 1906 A, 172, 199.
 1907 A, 360.

- Jordan, D. S. 1923 A, 114 (Typodus, preoccupied)
 Sauvage, H. E. 1902 A, 545
 Stemmman, G. 1927 A, 54, text-fig. 14.
 Triaquair, R. H. 1911 A, 29
 Woodward, A. S. 1890 C, 296.
 1910 B, 468.
 Zittel and Koken 1911 A, 103
 Zittel and Schlosser 1923 A, 103
 Zittel and Woodward 1902 A, 87.

Macromesodon abrasus (Cragin).

- Hay, O P. 1902 A, 372 (Typodus).
 Lower Cretaceous (Fredericksburg); Kansas

Macromesodon diastematicus (Cope).

Hay, O P 1902 A, 372 (Typodus)

1917 B, 4 (Typodus)

Montgomery, T H 1904 A 57 (Mesodon)

Lower Cretaceous (Fredericksburg); Texas

Macromesodon dumblei (Cope).

Hay, O P 1902 A, 373 (Typodus)

1917 B, 4 (Typodus)

Montgomery, T H. 1904 A, 56 (Microdus), 57

(Mesodon dumbleianus)

Lower Cretaceous; Texas

Macromesodon valens Hay.

Hay, O P 1917 B, 5, pl 1, fig 2 (Typodus)

Lower Cretaceous, Texas

PROSCINETES Gistel. Type *Microdon elegans* Agassiz.Gistel, J. 1848, Naturges. Thierr f hohere
Schulen, x (To replace *Microdon* preoccupied)Unless otherwise indicated the authors, as
cited, use for this genus the preoccupied name
Microdon

Agassiz L. 1833 A, 479

1835 H, 228

Arlt, T 1923 A, 495.

Bronn, H G 1848 A, 725

1849 A, 667.

Coulon, L 1903 A, 147

Deecke, W 1913 A, 83

Egerton P G 1855 A, 8 L, 1

Giebel, C G 1855 A, 111

Goodrich, E S 1909 A, 337, fig 317

Hay, O P. 1899 E, 788 (Pycnophus)

1917 B, 6 (Pycnomicrodon, laps mem.)

Heckel, J J 1850 A, 361

1856 A, 201

Hennig E 1906 A, 172, 199

Jordan, D S 1919, Proc Acad Nat Sci

Phila 1918, 336 (Proscinetes).

1919 B 237 (Proscinetes)

Owen, R 1845 B 73, pl xlv, fig. 1.

Pompeck, J F 1913 A, 1143

Priem, F 1911 C 10, pl iii

Stemmann, G 1927 A, 50

Vetter B 1881 A, 33

Woodward A S 1917 B 385

1919 A (1918) 445 fig 1

Zittel and Koken 1911 A, 102

Zittel and Schlosser 1923 A, 102, figs 172, 173

Zittel and Woodward 1902 A, 86

Proscinetes texanus (Gidley).

Gidley J W. 1913 C, 445, figs 1, 2 (Microdon)

Hay, O P 1917 B, 6 (Pycnomicrodon)

Lower Cretaceous, Texas

CÆLODUS Heckel. Type *C. saturnus* Heckel.

Hay O P 1902 A, 373

Coulon, L 1903 A, 149

Egerton P G 1877 A 49 pl iii fig. 1

Goodrich E S 1909 A 337, fig 317.

Hennig, E 1906 A, 188

Jordan D S 1919 B 270.

Lerche, M 1906 C, 413

Priem F 1903 A 403

1908 B 70 pl ii, fig 4

1909 B, 325

Sauvage, H E 1902 A, 550

Schlosser M 1917 A, 138, 140

Stemmann G 1927 A, 50

Storms, R. 1891 A, 150

Woodward, A S 1893 F, 488, 491

1895 G, 208, pl viii.

1896 E, 70

1912 A (1909), 165, text-figs 46, 47

1917 B, 386

1919 A (1918), 64, text-fig 24

Zittel and Koken 1911 A, 104

Zittel and Schlosser 1923 A, 105

Zittel and Woodward 1902 A, 88

Cœlodus brownii Cope.

Hay O P 1902 A, 373

Gidley, J W 1913 C, 447.

Lower Cretaceous (Comanche), Oklahoma

Cœlodus decaturensis Gidley.

Gidley J W 1913 C, 447, fig 4

Hay O P 1917 B 7

Lower Cretaceous, Texas

Cœlodus fabadensis Gidley.

Gidley J. W. 1913 C, 446, fig 3

Hay O P 1917 B, 7

Lower Cretaceous, Texas

Cœlodus stantoni Williston.

Hay O P. 1902 A, 373

Gidley, J W 1913 C, 447

Lower Cretaceous (Kiowa shales), Kansas

PYCNODUS Agassiz. Type *Zcus platessus* Blainv.

Hay, O P. 1902 A, 373

Agassiz, L. 1833 A, 479

1835 H, 229

Arlt, T 1923 A, 495

Bronn, H. G 1848 B, 1064

1849 B, 665

Coulon, L 1903 A, 147

Egerton, P G. 1855 A, 8 L, 1, pl x

1877 A, 50.

Fowler, H. W. 1911 A, 146

Hedpim, A 1837 A, 302

Hennig E 1906 A, 199

1912 A, 490

Hoernes, R 1886 A, 553.

Jordan and Evermann 1917 A, 144

Lerche, M 1906 C, 420

Mantell, G A 1844 A, 640, pl 1, fig 3, text-
fig 131

Priem, F 1903 A, 403.

1908 B, 109, fig 54

Ryder, J 1885 E, 95
 Sauvage, E 1867 A, 77.
 Savornin, J 1915 A, 370
 Schlosser M 1917 A, 140, 142.
 Stromer, E 1905 C, 185.
 Woodward A S 1917 B, 387
 Zittel and Koken 1911 A, 105
 Zittel and Schlosser 1923 A, 105
 Zittel and Woodward 1902 A, 88.

Pycnodus carolinensis Emmons.

Hay, O P 1902 A, 373
 Cretaceous (Miocene?), North Carolina

Pycnodus comminens Hay.

Hay O P 1917 B, 3, pl 1 fig 1.
 Lower Cretaceous, Texas

Pycnodus phaseolus Hay.

Hay, O P 1902 A, 373.
 Fowler, H W. 1911 A, 146, fig. 90
 Upper Cretaceous; Mississippi (Navesink?). New Jersey

Pycnodus planidens Hay.

Hay O P 1917 B, 7
 Lower Cretaceous; Texas

Pycnodus robustus Leidy.

Hay, O P. 1902 A, 373.
 Fowler, H W. 1911 A, 147, fig. 91.
 Cretaceous, New Jersey.

Pycnodus sp. indet.

Hay O P 1902 A, 373. (Triassic (Chatham); North Carolina.

HADRODUS Leidy. Type *H. priscus* Leidy.

Hay, O P. 1902 A, 373
 Jordan, D S 1923 A, 114

Hadrodus priscus Leidy.

Hay O P 1902 A 373
 Cretaceous; Mississippi

ANOMÆODUS Forr. Type *Pycnodus subclavatus* Agassiz.

Forr, H. 1887, Ann Soc. Géol Belgique, xv, Mén, 25
 Laiche M 1906 C, 411
 Priem F 1909 B 325
 1912 B, 266
 Woodward A S 1893 F, 487, pls xvi xvii
 1893 G, 488 pls xvi, xvii
 1895 A 256
 1895 G, 209 pl viii.
 1912 A (1909), 162, pl xxxv.
 1917 B 387
 Zittel and Schlosser 1923 A, 105
 Zittel and Woodward 1902 A, 88

Anomæodus latidens Gidley.

Gidley J W 1913 C 448 fig 5
 Upper Cretaceous (Selma or Ripley); Mississippi.

Anomæodus mississippiensis Gidley.

Gidley J W 1913 C 449 fig 6
 Upper Cretaceous (Coffee Sand of Eutaw or Selma chalk), Mississippi

Anomæodus sp. indet.

Gidley, J W 1926 F, 192, pl lxxv, fig 11
 (Anomæodus) Upper Cretaceous (Ripley; Tennessee

URANOPLOSUS Sauvage. Type *U. cotteani* Sauvage.

Hay O P 1902 A, 373.
 Sauvage H E 1902 A, 547

Uranoplosus arctatus Cope.

Hay O P. 1902 A, 373
 Lower Cretaceous (Comanche), Oklahoma

Uranoplosus flectidens Cope.

Hay O P 1902 A 373
 Lower Cretaceous (Comanche), Oklahoma

Order HOLOSTEI Müller.

Müller J 1845 A, 119, 137.
 Hay, O P 1902 A, 374.
 Allen, E P 1905 A, 404, 495
 1915 A, 621
 1918 A, 242.
 1918 B, 263
 1919 A, 374
 1919 B, 73.
 1919 C, 256
 1922 A, 152
 1922 B
 1923 A, 52.
 1923 B, 155.
 1925 A, 75.
 1926 A, 168.

Ardt T 1923 A, 494 ('holostier')
 Boulenger, G A. 1904 A, 162
 Budge T W 1878 A 722 (Teleosteoidea)
 1904 A 495
 Bronn H G 1849 A, 830, seq
 Carus, V 1875 A, 590 (Lepidostei).
 Cunningham, J T 1912 A, 240, 246, 261, 382
 Dean Gidger Henn 1923 A, 684
 Dombrowski, B A 1925 A, 70, fig 3.
 Ebner, V 1896 A, 146
 Egerton P G. 1852 C, 6 L 6.
 Gaupp, E 1898 B, 844, 863 ('knochenganoiden')
 Gegenbaur, C 1866 A, 123.
 Goodrich, E S 1909 A, 321.
 Greene J R 1861 A, 227.

- Gregory W K 1907 D, 448 464, pl xxix (Lepidosteoides).
 1920 A, 220
 1923 A, 238.
- Hase A. 1913 A, 147
- Hase C 1893 C 76 (knochenganoiden)
- Hilzheimer, M. 1913 A 471 ('knochenganoiden')
- Hubbs C L 1919 A, 570
- Jaekel, O. 1911 A, 69, 73.
- Jordan D S 1905 A, n 23, 578 (Lepidosteoides)
 1907 B, 259, 761 (Lepidosteoides)
 1923 A, 115
- Kehler F A 1896 A, 352 ('knochenganoiden')
- Kingsley J S 1885 A, 92
- Klaatsch H 1893 B 655 ('knochenganoiden')
- Leunis and Ludwig 1883 A, 775 (Euganoiden)
- Lonnberg E 1901 A
- Luther, A 1913 B, 12, 22, 52
- Matthes, E 1921 A 221 ('knochenganoiden')
- Meek A 1916 A, 48, 52
- Mull, L C. 1872 A, 34
- Owen R 1845 B 74 ('ganoids')
- Parker, W K 1881 C 71 ('holostean ganoids')
- Parker and Haswell 1897 A, 203
- Pehrson T 1922 A, 39
- Pompeck J F. 1913 A, 1139, 1141.
- Rauther M 1913 A, 1100
- Regan C T 1904 A 346
 1909 B, 76
 1912 B 838
 1923 B 457 (Holostei, Neopterygi, in part)
- Reynolds S H 1897 A, 67, 68, 105, 110 114
 121 126
- Ridewood W G 1896 A, 389
- Romer, A. S 1924 A, 128, 136.
- Ryder, J 1886 A 74
- Schlesinger G 1909 A, (147)
- Schmalhausen, J J 1912 A, 529
 1913 A, 61
 1913 C
 1923 B 544
- Sewertzoff A N 1918 A, 207
 1923 B
 1925 A 276
 1926 A, 509, 523 ('holosteans')
- 1926 C, 42
- 1926 D, 76 83
- 1926 F 274
- Solger, B 1880 A 367
- Stannius H 1854 A
- Stensi E A 1925 A *passim* ('ganoids' in part)
- Suschkm P P 1910 A 250
- Sumner H W 1905 A 378 (holosteans)
- Terra, P 1911 A, 205
- Traquair R H 1880 A, 157 (Lepidosteoides)
 1900 C 508 (Lepidosteoides)
- Ussow S 1900 A, 231 ('knochenganoiden')
- Wallace A R 1876 A, n, 458
- Watson D M S 1925 A 816 851, 863 868
- Whitehouse R H 1910 B, 595
- Woodward H 1878 A 22 (Lepidosteoides)

Suborder LEPISOSTEIFORMES, new name.

- Unless otherwise indicated the writers are cited, use the name *Ginglymodi*
- Hav, O P 1902 A, 374
- Agassiz L 1832 A, 140 (Lepidosteoides)
- Allis E P 1909 A, 201
- Ardit T. 1907 D, 656
- Beer G R 1926 A, 283 (Lepidosteoides)
- Cokerell, T D A 1913 B, 121.
- Cope E D. 1871 T, 452
 1891 N, 22
- Goodrich E S 1904 A 495 (Aethospondyli)
- 1909 A 340 (Lepidosteoides).
- Gregory W K 1907 D, 448 466
- Hoernes R 1886 A 554 (Lepidosteoides)
- Huxley T H 1861 D, 442 (Lepidosteoides)
- Jaekel O. 1911 A, 82 (Lepidosteoides)
- Jordan D S 1905 A, n, 24, 29, 572
 1907 B 761
- Jordan, D S 1923 A, 115
- Jordan and Gilbert 1882 A, 89
- Kner J 1924 A, 95 (Euganoida)
- Kingsley J S 1885 A, 96
- Pompeck J F 1913 A, 1145 (Lepidosteoides)
- Regan C T 1909 B, 77
 1912 B, 841 (Aethospondyli)
 1923 B, 459
- Scopin, H 1896 A, 166, 182.
- Stannius, H 1854 A (Lepidosteoides)
- Stromer, E 1912 A, 31 (Lepidosteoides).
 1925 B 354, 365 (Lepidosteoides)
- Traquair R H 1877 B 8 (Lepidosteoides)
 1911 A, 16 (Lepidosteoides)
- Zittel and Koken 1911 A, 105 (Orthogonoides)
- Zittel and Schlosser 1923 A 105 (Orthogonoides)
- Zittel and Woodward 1902 A, 79 (Lepidosteoides)

LEPIDOTIDÆ Owen.

- Unless otherwise indicated the authors, as quoted, use the name *Semionotidæ* for this family.
- Hav, O P 1902 A, 374 (Lepidotidæ)
- Abel O 1906 C, 84
 1912 F, 488 ('semionotiden')
- 1919 A, 197, fig 170
- 1920 A, 343 ('semionotiden')
- 1922 F, 77
- Ardit, T 1907 D, 682 (Sphærodontiræ)
- Bridge, T. W. 1904 A, 497
- Carus, V. 1875 A, 590 (Lepidotini).
- Deecke, W. 1926 A, 185.
- Eastman, C R 1905 B, 72
 1911 A, 18, 28 57.
 1914 A, 139, 140
 1917 A, 282
- Fitzinger L J 1873 A, 51 (Lepidoti)
- Gill, E L 1923 A, 38
- Goodrich, E S 1904 A, 495
 1908 A, 769
 1909 A, 334
- Gorjanovič-Kramberger, K 1905 A, 195
- Gregory, W. K 1907 D, 448 (Lepidotidæ *Semionotidæ*).

- Gregory, W. K. 1923 A, 238, 241 (Semionotidae, Semionotoidea).
- Hay, O. P. 1901 B, 72.
- Jordan, D. S. 1905 A, n, 24, 591 (Lepidotidae, Semionotidae).
- 1907 B, 761 (Lepidotidae).
- 1923 A, 114.
- Pompeckj, J. F. 1913 A, 1142 (Lepidotidae).
- Priem, F. 1908 B, 14 ("sémionotidés").
- Regan, C. T. 1923 B, 455, 460.
- Schlosser, M. 1917 A, 136, 138 ("stylodontiden," "sphaerodontiden").
- Scupin, H. 1896 A, 160, 182 (Sphaerodontidae).
- Stensio, E. A. 1921 A, 253.
- 1925 A, 224.
- Stolley, E. 1920 A, 77, 79 (Lepidotidae, Semionotidae).
- Swinerton, H. H. 1925 A, 98 (Semionotidae).
- Traquair, R. H. 1911 A, 16.
- Watson, D. M. S. 1925 A, 866 ("semionotids").
- Woodward, A. S. 1898 B, 95.
- 1912 A (1909), 161.
- 1922 C, 90 (Semionotidae).
- Zittel and Schlosser 1923 A, 108 (Lepidotidae).
- Zittel and Woodward 1902 A, 80 (Stylodontidae).
- 81 (Semionotidae).
- LEPIDOTES Agassiz.** Type *L. gigas* Agassiz = *Cyprinus elcensis* Blainville.
- Agassiz, L.* 1832 A, 145.
- Unless otherwise indicated the authors here quoted spell the name *Lepidotus*.
- Hay, O. P. 1902 A, 374.
- Abel, O. 1912 F, 490, fig. 371 C.
- 1919 A, 201, figs. 156, 157.
- 1920 A, 343, fig. 543.
- Agassiz, A. 1877 A, 124.
- Agassiz, L. 1833 A, 474.
- 1835 H, 213.
- 1844 C, 265.
- Allis, E. P. 1909 A, 201.
- Ardt, T. 1923 A, 495.
- Bronn, H. G. 1848 A, 632 (Lepidotes, Lepidotus).
- 1849 A, 659.
- Coulon, L. 1903 A, 142.
- Cross and Howe 1905 A, 486.
- Dabelow, A. 1926 A, 97, fig. 1.
- Day, H. 1915 A, 432.
- Dean, B. 1914 A, 59.
- Dean, Gudger, Henn 1923 A, 623.
- Deecke, W. 1913 A, 80, 81.
- Drevermann, F. 1912 A, 6, fig.
- Eastman, C. R. 1917 A, 278, 282.
- Egerton, P. G. 1852 C, 6D, 1, pl. in.
- 1854 A, 368.
- Frost, G. A. 1913 A, 220.
- Gaudry, A. 1896 A, 80, fig. 52.
- Gervais, P. 1852 A, explan. pl. lxxv.
- 1859 A, 516, pl. lxxv.
- Gill, E. L. 1923 A, 22.
- Goodrich, E. S. 1908 A, 756, 758.
- 1909 A, 335, fig. 316.
- Gregory, W. K. 1923 A, 239.
- 1924 A, 1.
- Heilprin, A. 1887 A, 302.
- Hennig, E. 1906 A, 186, fig. 12.
- 1912 A, 489.
- 1914 A, 269, pl. xxiii; text-figs. 3, 4.
- 1915 E, 51.
- 1920 B, 112.
- Hoernes, R. 1886 A, 556.
- Huxley, T. H. 1862 A, 1.
- Jaekel, O. 1905 C, 141, fig. 5.
- 1906 A, 23, fig. 14.
- 1911 A, 82, figs. 89, 90.
- Jordan, D. S. 1917 A, 141 (Lepidotes).
- Klaatsch, H. 1890 A, 144.
- Langkaster, E. R. 1905 A, 250, fig. 179.
- Lee, J. E. 1860 A, 458, pl. xii.
- Leriche, M. 1902 B, 130 (Lepidotus).
- Lutken, C. 1868 C, 44.
- 1871 A, 287.
- Pompeckj, J. F. 1913 A, 1142, fig. 49.
- Priem, F. 1908 A, 1, pls. i, ii.
- 1908 B, 22, 26, 31.
- Regan, C. T. 1923 B, 455.
- Reynolds, S. H. 1897 A, 110.
- Ridewood, W. G. 1896 A, 385, fig. 13.
- Sauvage, E. 1867 A, 67.
- Schellwien, E. 1901 A.
- Schlosser, M. 1917 A, 140.
- Scupin, H. 1896 A, 160, pl. ix, figs. 6-8.
- Stemmann, G. 1927 A, 12.
- Stensio, E. A. 1921 A, 174.
- 1925 A, 64.
- Stolley, E. 1920 A, 77.
- Stromer, E. 1925 B, 352, 359.
- Tomes, C. S. 1898 B, 450.
- Traquair, R. H. 1900 C, 507.
- 1911 A, 16.
- Watson, D. M. S. 1925 A, 824, 867.
- Woodward, A. S. 1888 M, 139.
- 1896 E, 70.
- 1898 B, 96, fig. 69.
- 1906 C, 279.
- 1908 A, 359, pl. xliii, figs. 1, 2.
- 1912 A (1909), 161.
- 1915 B, lxxiii.
- 1919 A (1916), 26, pls. vi-x, text-figs. 12-18.
- 1921 A, 181.
- 1922 C, 91, fig. 97.
- Zittel and Koken 1911 A, 108.
- Zittel and Schlosser 1923 A, 11, 109, figs. 13, 185-187.
- Zittel and Woodward 1902 A, 82.
- Lepidotes? lacotanus Gregory.**
- Gregory, W. K. 1924 A, 1, figs. 1, 2 (Lepidotus?).
- Lower Cretaceous (Lacota); South Dakota.
- Lepidotes walcotti Eastman.**
- Eastman, C. R. 1917 A, 283, pl. xii, fig. 4; pl. xiii, fig. 3 (Lepidotus). Triassic; Utah.
- Lepidotes sp. indet.**
- Hay, O. P. 1902 A, 374 (Lepidotus). Cretaceous (Kiowa Shales); Kansas.

ACENTROPHORUS Traquair. Type *A. varians* (Kirkby).

- Hay, O P. 1902 A, 374
 Abel, O. 1919 A, 199
 Arldt, T. 1923 A, 495.
 Eastman, C. R. 1905 A, 58
 1905 B, 94 (*Acentrophorus*)
 1911 A, 29
 Gill, E. L. 1923 A, 19, text-figs. 1-19.
 1923 B, 466, fig. 1
 Gregory, W. K. 1923 A, 239
 Jordan, D. S. 1905 A, ii, 23
 Kirby, J. W. 1862 A, 267 (*Palaeoniscus varians*)
 1864 A, 353, pl. xviii, fig. 2 (*Palaeoniscus*
 variens)
 Traquair, R. H. 1900 C, 507

- Watson, D. M. S. 1925 A, 824, 866
 Woodward, A. S. 1915 B, lxxiii
 1924 A, 114.
 Zittel and Woodward 1902 A, 80.

Acentrophorus chicopensis Newb.

- Hav. O P. 1902 A, 374
 Eastman, C. R. 1905 B, 94
 1911 A, 28, 71
 Emerson, B. K. 1898 A, 400
 Hussakof, L. 1908 A, 50
 Lull, R. S. 1917 D, 109
 Lyman, B. S. 1894 A, 211
 Triassic (Newark); New Jersey, Connecticut.

SEMIONOTUS Agassiz. Type *S. bergeri* Agassiz.

- Hay, O P. 1902 A, 375
 Abel, O. 1919 A, 200 figs. 153, 154
 Agassiz, L. 1832 A, 144
 1833 A, 474
 1835 H, 212
 1844 C, 265
 1877 A, 124
 Alessandri, G. 1910 A, 66.
 Arldt, T. 1907 D, 338
 1923 A, 493 (*Ischypterus*), 495 (*Semio-*
 notus)
 Barkas, W. J. 1874 D, 551 (*Ischypterus*).
 Bronn, H. G. 1848 B, 1132
 1849 A, 659
 Dean, Gudger, Henn. 1923 A, 623.
 Deecke, W. 1913 A, 74 (*Ischypterus*), 80
 (*Semionotus*)
 1926 A, 185
 Eastman, C. R. 1905 B, 68, 73, figs. 9-11.
 1911 A, 21, 24, 40, 57
 1914 A, 146
 Eaton, G. F. 1903 A, 259
 Emerson, B. K. 1898 A, 400 (*Ischypterus*).
 Giebel, C. G. 1855 A, 113
 Gorjanovic-Kramberger, K. 1905 A, 195
 Gregory, W. K. 1923 A, 239
 Hay, O P. 1901 B, 72.
 Heckel, J. F. 1850 A, 365.
 Heilprin, A. 1887 A, 302 (*Ischypterus*)
 Hennig, E. 1915 E, 49
 Hoernes, R. 1886 A, 555.
 Huene, F. 1922 H, 153
 1926 E, 7
 Jordan and Evermann. 1917 A, 140
 Koken, E. 1893 B, 278.
 Philipp and Frech. 1903 A, 12, pls. v, vi
 Schellwien, E. 1901 A
 Scupin, H. 1896 A, 168, pl. x, fig. 3
 Steinmann, G. 1907 A, 412
 1927 A, 74, 76
 Stensio, E. A. 1925 A, 86.
 Stolley, E. 1920 A, 76.
 Stromer, E. 1925 B, 349.
 Swinnerton, H. H. 1925 A, 87.
 Traquair, R. H. 1900 C, 507
 Watson, D. M. S. 1923 A, 472
 1925 A, 866
 Woodward, A. S. 1888 M, 138, pl. vi
 1890 E, 367.

- Zittel and Koken. 1911 A, 106
 Zittel and Schlosser. 1923 A, 106, fig. 178.
 Zittel and Woodward. 1902 A, 80

Semionotus agassizii (W. C. Redfield).

- Hay, O P. 1902 A, 375 (*S. agassizii*, *S. marshii*)
 Bayley, Kummel, and Salisbury. 1914 A, 13
 Eastman, C. R. 1905 B, 80, pl. i, pl. ii, figs. 5, 9, 10, 12, pl. iii, figs. 1, 2; pls. vii, viii (*S. marshii* a syn.)
 1911 A, 23, 61, pls. i, ii; text-fig. 8 (*S. agassizii*), 63 (*Ischypterus marshii*)
 Eaton, G. F. 1903 A, 260, 264, pl. v, figs. 5, 7, 10, 12, pl. vi, figs. 1, 2 (*S. marshii*)
 Hussakof, L. 1908 A, 98
 Jordan, D. S. 1905 A, ii, 24
 Lull, R. S. 1917 D, 109
 Lyman, B. S. 1894 A, 210, 214 (*Ischypterus agassizii* l. *marshii*).
 Redfield, J. H. 1888 A, 30 (*Palaeoniscus*)
 Smith, J. H. 1900 A, 500, 503, figs. (*Ischypterus*)
 Triassic (Newark), New Jersey, Massachusetts.

Semionotus alatus (Newb.).

- Hay, O P. 1902 A, 375
 Lyman, B. S. 1894 A, 214 (*Ischypterus*)
 Triassic (Newark) New Jersey

Semionotus beardmorei (Smith).

- Smith, J. H. 1900 A, 502, 503, fig. (*Ischypterus*)
 Eastman, C. R. 1905 A, 65 (*Ischypterus beardmorei*)
 1911 A, 71 (*Ischypterus beardmorei*)
 Triassic (Newark); New Jersey
 A doubtful species

Semionotus braunii (Newb.).

- Hay, O P. 1902 A, 375.
 Bayley, Kummel, and Salisbury. 1914 A, 13
 Eastman, C. R. 1905 B, 93
 1911 A, 28, 71.
 Hussakof, L. 1908 A, 99
 Lull, R. S. 1917 D, 109.
 Lyman, B. S. 1894 A, 204 (*Ischypterus*)
 Triassic (Newark); New Jersey

***Semionotus elegans* (Newb.).**

- Hav, O P 1902 A, 375
 Bayley, Kummel, and Salisbury 1914 A, 13
 Eastman, C R 1905 B, 91, pl. xii.
 1911 A, 28, 71.
 1917 A, 278, 282, pl xv, fig 3
 Hussakof, L 1908 A, 99.
 Loper, S W. 1893 A, 75 (Ischypterus)
 Lull R S 1917 D, 109
 Lyman, B S 1894 A, 214 (Ischypterus)
 Triassic (Newark); New Jersey

***Semionotus fultus* (J. H. Redfield).**

- Hav O P 1902 A, 375.
 Agassiz L 1833 A, 472 (Palaeoniscus)
 1835 H, 206 (Palaeoniscus)
 Bayley, Kummel, and Salisbury 1914 A, 13.
 Eastman, C R 1905 B 83, pl ii, figs 1-4, pl
 ix text-fig 12
 1911 A, 28, 63, 64, pl iii
 Eaton G F 1903 A, 261, pl v, figs 1-4.
 Hussakof, L 1908 A, 100
 Lambe, L M 1915 B, 120 (This species?)
 Lull, R S 1917 D, 109
 Lyman B S 1894 A, 209, 214 (Ischypterus
 fultus), 214 (I macropterus)
 Powers S 1916 A 115 121
 Redfield J H 1888 A, 34 (Palaeoniscus)
 Rogers A F 1924 A, 546
 Schellwien, E 1901 A 29 (Ischypterus)
 Triassic (Newark), New Jersey

***Semionotus gigas* (Newb.).**

- Hav O P 1902 A 375.
 Bayley, Kummel, and Salisbury 1914 A, 13
 Eastman C R 1905 B, 83
 1911 A, 28.
 Hussakof L 1908 A 100
 Lull R S 1917 D, 109
 Lyman B S 1894 A, 214 (Ischypterus).
 Triassic (Newark), New Jersey.

***Semionotus lenticularis* (Newb.).**

- Hav O P. 1902 A, 375
 Lyman, B S 1894 A, 214 (Ischypterus)
 Triassic (Newark), New Jersey

***Semionotus lineatus* (Newb.).**

- Hav O P. 1902 A, 375
 Eastman C R 1905 B, 89, pls x, xi.
 1911 A, 28, 71
 Hussakof, L. 1908 A, 100.
 Lyman, B. S 1894 A 214 (Ischypterus).
 Triassic (Newark), New Jersey.

***Semionotus micropterus* (Newb.).**

- Newberry, J S. 1888 A, 31, pl. iv, figs 1, 2,
 pl. xii, fig 2 (Ischypterus).
 Hav O. P 1902 A, 375
 Eastman, C. R 1905 B, 87, pl. ii, figs. 6-8
 11, 13; text-fig 13
 1911 A, 28, 67, pl iv.
 1914 A, 146, pl. xxxii, fig. 1.
 Eaton, G. F. 1903 A, 263, pl. v, figs. 6-8, 11, 13
 Hussakof, L. 1908 A, 100.
 Lull, R. S. 1917 D, 109.

- Lyman, B S 1894 A, 209 (Ischypterus)
 Triassic (Newark); Connecticut

***Semionotus minutus* (Newb.).**

- Hav, O P 1902 A, 375
 Eastman, C R 1911 A, 71.
 Hussakof, L 1908 A, 101
 Lyman B S 1894 A 209 (Ischypterus)
 Triassic (Newark); Connecticut

***Semionotus modestus* (Newb.).**

- Hav O. P 1902 A, 376.
 Lyman, B S. 1894 A, 214 (Ischypterus)
 Triassic (Newark), New Jersey

***Semionotus newberryi* (Loper).**

- Loper, S W 1893 A 75 fig 2 (Ischypterus)
 Eastman, C R 1905 A, 651
 Loper S W. 1899 A 98 (Ischypterus).
 Triassic (Newark), Connecticut
 A doubtful species

***Semionotus ovatus* (W. C. Redfield).**

- Hav, O P 1902 A 376
 Bayley Kummel, and Salisbury 1914 A, 13
 Eastman C R 1905 B 78 pls 4-6
 1911 A 28 69
 Eaton G F 1903 A, 266
 Hussakof, L 1908 A, 100
 Lansing, G Y 1854 A 62 (Ischypterus
 This species?)
 Lull R S 1917 D 110
 Lyman B S 1894 A, 205, 208, 209 214 (Ischypterus)
 Philippi and Frech 1903 A 12 pl vi
 Redfield, J H 1888 A 27 (Palaeoniscus)
 Smith J H 1900 A 504, fig (Ischypterus)
 Woodward A S 1890 E, 367 (Tetragonolepis
 This species?)
 Triassic (Newark), New Jersey Connecticut Virginia

***Semionotus parvus* (W. C. Redfield).**

- Hav O P 1902 A, 376.
 Eastman C R 1911 A 71
 Loper, S W 1893 A 75 (Ischypterus)
 Lyman, B S 1894 A, 205, 209, 210 214
 (Ischypterus)
 Triassic (Newark); Massachusetts.

***Semionotus robustus* (Newb.).**

- Hav, O P 1902 A 376
 Bayley Kummel, and Salisbury 1914 A 13
 Eastman, C R 1905 B, 79.
 1911 A, 29
 Hussakof, L 1908 A, 100.
 Lull, R S 1917 D, 110
 Lyman, B. S. 1894 A, 214 (Ischypterus).
 Triassic (Newark); New Jersey.

***Semionotus tenuiceps* (Agassiz).**

- Hav, O. P. 1902 A, 376
 Bayley, Kummel, and Salisbury 1914 A 13
 Bronn H G. 1849 A, 658 (Euryotus).
 Eastman C R. 1905 B, 86
 1911 A, 29, 63, 66

- Eaton, G. F. 1903 A, 265
 Hobbs, W. H. 1901 A, 56
 Hussakof, L. 1908 A, 101.
 Lull, R. S. 1917 D, 110.
 Lyman, B. S. 1894 A, 205, 209, 214 (*Ischypterus*);
 210 (*Ischypterus latus*, I *tenueps*).
 Newberry, J. S. 1888 A, 32, pl. v, figs 1-3; pl
 vii, fig. 3; 46, pl. xiii, fig. 3 (*Ischypterus*
latus).
 Redfield, J. H. 1888 A, 46 (*Palaeoniscus*).

TETRAGONOLEPIS Bronn.

- Bronn, H. G. 1830, Neues Jahrb. Min., 30
 Woodward, A. S. 1895 A, 158.
 Zittel, K. A. 1890 A, 207.

Tetragonolepis? sp. indet.

- Hav, O. P. 1902 A, 376 (*Semonotus ovatus*, in
 part).

ASPIDORHYNCHIDÆ Nicholson and Lydekker.

- Nicholson and Lydekker 1889 A, 987
 Arldt, T. 1923 A, 494 ("aspidorhynchiden")
 Assmann, P. 1906 A, 51, 76 (*Rhynchodontidæ*)
 Bridge, T. W. 1904 A, 502
 Dean, Gudger, Henn 1923 A, 624
 Goodrich, E. S. 1909 A, 344
 Jordan, D. S. 1905 A, ii, 29
 1923 A, 115
 Nicholson and Lydekker 1889 A, 987 (*Aspi-*
dorhynchidæ, *Belonorhynchidæ*)
 Regan, C. T. 1909 B, 77 (*Aspidorhynchii*)
 Reis, O. 1887 A, 155 ("aspidorhynchen").

BELONOSTOMUS Agassiz.

- Agassiz, L. 1834 Neues Jahrb. Min., 388.
 1843 (1844) ii, pt. 2, 140, 297
 Arldt, T. 1923 A, 494
 Assmann, P. 1906 A, 56
 Bridge, T. W. 1904 A, 502.
 Costa, O. G. 1856, Ittiol. Foss., 13 (*Ophichthi*)
 Dean, Gudger, Henn 1923 A, 624.
 Eastman, C. R. 1917 A, 286
 Jordan, D. S. 1905 A, ii, 29
 1919 B, 180
 Nicholson and Lydekker 1889 A, 988.
 Reis, O. 1887 A, 151, pls. i, ii.
 Schlosser, M. 1917 A, 140
 Steinmann, G. 1927 A, 75
 Stromer, E. 1925 B, 345.
 Vetter, B. 1881 A, 84-90
 Winckler, T. C. 1871 B, 173

- Shellwien, E. 1901 A, 29 (*Ischypterus*).
 Triassic (Newark); Massachusetts, Connecti-
 cut, New Jersey.

Semonotus sp. indet.

- Hitchcock, E. 1823 A, 76, pl. figs 1, 2 ("ich-
 thyolites") Triassic (Newark); Massachu-
 setts.
 Loper, S. W. 1899 A, 98, fig. 2 ("fish"). Tri-
 assic (Newark); Connecticut

Type *T. semicincta* Bronn.

- Egerton, P. G. in Lyell, C. 1847 B, 277, pl. ix,
 fig. 2
 Newberry, J. S. 1888 A, 20 (This genus?)
 Shaler and Woodworth 1899 A, 431 ("Tetrago-
 nolepis")
 Triassic (Newark); Virginia

- Schlosser, M. 1917 A, 138, 139, 140, 148 ("as-
 pidorhynchiden")
 Stensio, E. A. 1925 A, 14, 119 ("aspidorhyn-
 chids")
 Vetter, B. 1881 A, 73 (*Aspidorhynchii*).
 Woodward, A. S. 1895 A, 415.
 1898 B, 111
 1912 A (1908), 142
 Zittel, K. A. 1890 A, 219 (*Rhynchodontidæ*).
 Zittel and Broili 1911 A, 111.
 Zittel, Eastman, etc. 1902 A, 88
 Zittel and Koken 1911 A, 111
 Zittel and Schlosser 1923 A, 112.

Type *B. tenuirostris* Agassiz.

- Woodward, A. S. 1888 K, 354
 1888 L, 145, pl. vii, figs 7-13.
 1895 A, 428
 1895 G, 210
 1896 E, 70
 1898 B, 112
 1912 A (1908), 142
 Zittel, K. A. 1890 A, 221
 Zittel and Eastman, etc. 1902 A, 89
 Zittel and Koken 1911 A, 112.
 Zittel and Schlosser 1923 A, 113

Belonostomus ornatus Felix.

- Felix, J. 1891 A, 192, pl. xxviii, figs. 14-18;
 pl. xxx, figs. 8, 8a
 Woodward, A. S. 1895 A, 440.
 Lower Cretaceous (Neocomian), Mexico.

LEPISOSTEIDÆ Adams.

- Adams, A. 1854 A, 93.
 Unless otherwise indicated the authors, as
 cited, employ the form *Lepidosteidæ*.
 Hav, O. P. 1902 A, 376 (*Lepisosteidæ*).
 Abel, O. 1919 A, 215.
 Agassiz, L. 1832 A, 140 (*Lepidosteii*).
 1833 A, 475 (*Sauroides*).
 Allis, E. P. 1909 A, 202.
 Arldt, T. 1907 D, 662.
 1912 A, 716, 762.
 1923 A, 494 ("lepidosteiden").

- Baird, S. F. 1876 A, 311 ("garfishes")
 Bonaparte, C. L. 1840 A, 48.
 Bridge, T. W. 1896 A, 540.
 1904 A, 502.
 Carus, V. 1875 A, 590 (*Lepidosteini*).
 Cockerell, T. D. A. 1913 B, 121.
 Collinge, W. E. 1894 A, 528
 Cunningham, J. T. 1912 A, 246.
 Cuvier, G. 1825 A, v, 2, 307 ("lepisostées").
 Dean, Gudger, Henn 1923 A, 624.

- Duméril, A. M. C. 1870 A, 291 ('lépidosté-
idés")
- Fitzinger, L. J. 1873 A, 52 (Lepidoste)
- Fowler, H. W. 1911 A, 149 (Lepisosteidae)
- Gill, T. 1875 B, 252
1885 B, 27.
- Goodrich, E. S. 1908 A, 769
1913 A, 80
1909 A, 344 (Lepidosteus)
- Gregory, W. K. 1923 A, 238, 240
- Hoernes, R. 1886 A, 556
- Huxley, T. H. 1862 A, 111.
- Jaekel, O. 1911 A, 69 (Lepidoste).
- Jordan, D. S. 1905 A, 29, 578 (Lepisosteidae)
1907 B, 259, 761 (Lepisosteidae)
1923 A, 115 (Lepisosteidae)
- Jordan and Gilbert 1882 A, 89 (Lepidosteidae)
- Lemone, V. 1889 A, 233 ("lépidostés")
- Leunis and Ludwig 1883 A, 774.
- Lonnberg, E. 1901 A
- Lutken, C. 1888 C
1871 A, 286 ('lépidostéides")
- Muller, J. 1846 A, 208 (Lepidosteini)
- Rabl, C. 1901 A, 489 ("lepidosteiden")
- Rauthen, M. 1913 A, 1100
- Sauvage, H. E. 1897 A, 92 ('lépidostéidés")
- Schlosser, M. 1917 A, 144 ("lepidosteiden")
- Newertzoff, A. N. 1923 B
- Shepherd, C. E. 1914 A, 262.
- Terra, P. 1911 A, 205
- Wallace, A. R. 1876 A, 11, 459
- Watson, D. M. S. 1925 A, 866, 867 ("lepi-
do-steoids")
- Woodward, A. S. 1898 B, 112
- Zittel and Koken 1911 A, 112
- Zittel and Schlosser 1923 A, 113 (Lepidosteidae).
- Zittel and Woodward 1902 A, 89
- LEPIDOSTEUS Lacépède.** Type *L. garrulus* Lacépède=*Esor osseus* Linn.
- Unless otherwise indicated the authors, as
quoted, employ the name *Lepidosteus*.
- Hay, O. P. 1902 A, 376 (Lepisosteus).
- Abel, O. 1912 F, 429, 513.
1919 A, 43, 216, figs 17, 25
1920 A, 337, figs 535, 536
- Adams, L. A. 1919 A, 71, pl. II
- Agassiz, A. 1877 A, 117, fig. 1.
- Agassiz, L. 1832 A, 140.
1835 D, 189
1835 E, 199.
1835 F, 253
1835 J, 119.
1844 C, 268.
1856 C, 63.
- Allis, E. P. 1897 A, 10.
1898 A, 430.
1898 B, 93.
1905 A, 407.
1909 A, 214
1915 A, 566.
1918 A, 242
1918 B, 260
1919 A, 368
1919 C, 245
1919 E, 369.
1922 B
1922 C, 11.
1923 A, 41, 44
1926 A, 169.
- Ardt, T. 1907 D, 97, 284 (Lepisosteus)
1923 A, 494 (Lepidosteus, Clastes, Pneumatosteus).
- Assmann, P. 1906 A, 78.
- Baird, S. F. 1876 A, 347.
- Baraldi, G. 1877 A, 12.
- Baudelot, E. 1873 A, 94, 122.
- Baur, G. 1893 D, 117.
- Beer, G. R. 1926 A, 283, figs 111, 115, 120.
- Bhss, R. 1875 A, 386
- Boas, J. E. V. 1914 B, 543.
- Brandt, J. F. 1865 A, 7.
- Bridge, T. W. 1878 A, 688.
1896 A, 540, pl. XXI.
1904 A, 503, 744
- Brown, H. G. 1848 A, 632, 634.
- Cokerell, T. D. A. 1913 B, 121 (Lepisosteus)
- Collinge, W. E. 1893 B, 259.
1893 C, 263
1895 C, 888
- Connell, A. 1835 B, 191
- Cope, E. D. 1880 U, 148 (Clastes)
- Coulon, L. 1903 A, 143
- Credner, H. 1893 A, 669
- Cunningham, J. T. 1912 A, 236, 258, pl. xx
- Cuvier, G. 1815 A, 117 ("lépisostées").
- Day, H. 1915 A, 431
- Dean, B. 1895 C, 734
1896 D, 338.
- Dean, Gudgeon, Henn 1923 A, 687
- Deecke, W. 1913 A, 71
- Derjugin, K. M. 1909 A
1910 A, 629
- Dollo, L. 1892 D, 120
1893 E, 193
- Duméril, A. M. C. 1856 A, 434 ('lépisostée)
1870 A, 291, pls. xvi, xxii, xxiv (Lepisosteus)
- Eastman, C. R. 1911 A, 18
1917 A, 282
- Edgeworth, F. H. 1925 A, 234, 240 (Lepidosteus).
1926 A, 181, fig. 18 (Lepidosteus).
- Egerton, P. G. 1852 C, 6L, 2
- Fowler, H. W. 1911 A, 150 (Lepisosteus)
- Gadow, H. 1896 A, 7
- Gaupp, E. 1902 A, 218
1905 D, 900
1906 B
1908 C, 704
1910 C, 338
1912 B, 227
- Gegenbaur, C. 1867 A, 56
1867 B, 358-420, pls. VII-IX
- Gilmore, C. W. 1917 B, 4 (Lepisosteus).
- Goetsch, W. 1920 A, 13, 17, 515
- Goodrich, E. S. 1904 A, 477, fig. 2.
1908 A, 757, 758
1909 A, 512, figs.
1913 A, 81
- Green, J. 1858 A, 363.
- Gregory, W. K. 1915 D, 327.

- Gregory, W. K. 1920 A, 222.
 1922 A, 9, 79.
 Hague, F. 1924 A, 274.
 Hase, A. 1907 A.
 Hasse, C. 1893 C 94, pl. vi, fig. 13.
 Hasse and Schwarck 1870 A 30.
 Hatschek, B. 1889 B, 115, fig. 3.
 Heckel, J. J. 1850 A, 365.
 1850 B, 145.
 1851 A, 222.
 Heilprin, A. 1887 A 68.
 Hertwig, O. 1879 A lxxx.
 Hilgard, T. C. 1860 A, 679 ("gars").
 Hubbs, C. L. 1919 B, 63.
 Huxley, T. H. 1858 D, 517.
 1859 H, 45.
 1862 A, xlix.
 1863 F, 427.
 1883 B, 569.
 Imms, A. D. 1904 A, 30.
 Jordan, D. S. 1905 A, ii 23, 578 (Lepisosteus).
 1907 B 260 (Lepisosteus).
 Jordan and Evermann 1917 A 66 (Lepisosteus).
 Jordan and Gilbert 1882 A, 90 (Lepisosteus).
 Kehrer, F. A. 1896 A, 350.
 Kesteven, H. L. 1922 A, 312.
 Kner, J. 1924 A, 95.
 Kimbrell, J. E. 1919 A.
 Kingsley, J. S. 1925 A, 33, 103, 104, figs. 36, 111, 112.
 Klaatsch, H. 1890 A, 124, 125, pl. vii.
 1893 C, 181.
 Kner, R. 1860 B, 819.
 Kostlin, O. 1844 A.
 Kryzanovsky, S. 1916 A, 237.
 Lakjer, T. 1927 A.
 Lavocat, A. 1885 A, 32 ("lépidostée").
 Lebedinsky, N. G. 1917 A 315 (Lepisosteus).
 Lee, J. E. 1860 A, 458, pl. xii.
 Lerche, M. 1900 A, 187.
 1902 A, 12.
 1906 C 417.
 Leunis and Ludwig 1883 A, 774.
 Lonnberg, E. 1901 A.
 1902 A.
 Lucas, F. A. 1901 J, 57 ("gar pike").
 Luther, A. 1913 B, 13, 26, 58.
 Lutken, C. 1868 C.
 Mantell, G. A. 1844 A, 651.
 Matthes, E. 1921 A, 221.
 Matthew, W. D. 1915 A, 298.
 Mayhew, R. I. 1924 A, 315.
 Meek, A. 1916 A, 52.
 Miall, L. C. 1872 A, 25, 31.
 Muller, J. 1845 A.
 Nopcsa, F. 1923 C 474.
 Norman, E. W. 1926 A.
 Osburn, R. C. 1906 B, 587.
 Owen, R. 1848 B, 49.
 1868 A, 888.
 Peale, A. C. 1876 A, 154 (Clastes).
 Pehrson, T. 1922 A.
 Plate, L. 1926 A, 44.
 Pompeckj, J. F. 1913 A, 1145.
 Priem, F. 1901 A, 490 (Lepisosteus); 491 (Clastes).
 1908 B, 81, 90.
 Rauther, M. 1913 A, 1071, fig. 26.
 Regan, C. T. 1923 B, 445, 455.
 Reis, O. 1887 A, 151 (Lepisosteus).
 Reynolds, S. H. 1897 A, 545.
 Ridewood, W. G. 1896 A, 381.
 1904 A, 56.
 1905 C, 279.
 Rogers, A. F. 1924 A, 546.
 Romer, A. S. 1924 A, 123, 128, figs. 2, 3, 6, 7, 9.
 Rosén, N. 1916 A, 21, fig. 10.
 Ryder, J. 1885 E, 95.
 Sagenhehl, M. 1883 A.
 1884 A, 19.
 Salensky, W. 1899 B, 317.
 Sauvage, H. E. 1897 A, 92 (Lepisosteus, Clastes).
 Scharff, R. F. 1911 A, 163, 198, 290.
 1922 A, 68.
 Schaumsland, H. 1906 A, 438, 440, figs. 251-254.
 Schlesinger, G. 1909 A (144).
 Schlosser, M. 1901 N, 480.
 1917 A, 142.
 Schmalhausen, J. J. 1912 A, 530, 568, pls. xvi-xviii.
 1913 A, 3.
 1913 C, pl. ii, iii.
 1923 B, 546, fig. 1.
 Schreiner, K. E. 1902 A, 467 (Lepisosteus).
 Seupin, H. 1896 A, 166.
 Sewertzoff, A. 1896 A, 239, fig. 2.
 1918 A, 207.
 1923 B.
 1924 A, 578.
 1925 A, 274.
 1926 A, 523.
 1926 D, 77.
 1926 E, 555.
 Solger, B. 1880 A, 368.
 Stadtmüller, F. 1926 A, 160, fig. 6.
 Stanton and Hatcher 1905 A, 38 (Lepidotus).
 Starks, E. C. 1916 A, 12.
 Stemmann, G. 1912 B, 726.
 Stensio, E. A. 1921 A, 138, 275.
 1925 A, 14, 24, 31.
 1925 B, 106.
 Stephan, P. 1900 A, 287.
 Strecker, C. 1887 A, 302.
 Stromer, E. 1925 B, 360 (Lepisosteus).
 Su-hkun, P. P. 1910 A, 252.
 1927 A, 264.
 Sutton, J. B. 1884 A, 570.
 Taylor, H. F. 1916 A, 298.
 Terra, P. 1911 A, 96, fig. 24.
 Tims, H. W. 1905 A, 45.
 Tomes, C. S. 1877 A, 46.
 1878 A, 38, pl. iv.
 1898 C, 347.
 Traquair, R. H. 1880 A, 157.
 1900 C, 508.
 Uhlmann, E. 1921 A, 302.
 Ussow, S. 1900 A.
 Van Wijhe, J. W. 1922 A, 293 (Lepisosteus).
 Vert, O. 1911 A.
 Wagner, R. 1843 A.
 Wallace, A. R. 1876 A, ii, 459.
 Wamich, P. 1913 A, 21.
 Watson, D. M. S. 1912 A, 5.
 1925 A, 851.

- White, C. A. 1885 A, 64.
 Wiedersheim, R. 1880 C, 128.
 Wilder, B. 1843 B, 131.
 1876 A, 153, 166, pl. 1.
 Woodward, A. S. 1898 B, 113.
 Woodward, H. 1878 A, 19
 1906 C, 279.
 Wyman, J. 1843 B, 131.
 Zittel and Schlosser 1923 A, 113, figs. 7, 196.
 Zittel and Koken 1911 A, 113, figs. 6, 208.
 Zittel and Woodward 1902 A, 89

Lepisosteus aganus (Cope).

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
 Merrill, G. P. 1907 A, 7 (Clastes).
 Stromer, E. 1925 B, 361
 Eocene (Wasatch); New Mexico.

Lepisosteus atrox Leidy.

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
 Hussakof, L. 1908 A, 78.
 Hussakof and Bryant 1919 A, 195.
 Jordan, D. S. 1905 A, 11, 32.
 Merrill, G. P. 1907 A, 7 (Clastes anax, atrox).
 12 (L. atrox)
 Sauvage, H. E. 1901 G, 80 (Lepidosteus).
 Schlosser, M. 1901 N, 480 (Lepidosteus).
 Stromer, E. 1925 B, 360
 Eocene (Bridger); Wyoming

Lepisosteus cuneatus (Cope).

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1909 B, 796.
 Hussakof, L. 1908 A, 78.
 Hussakof and Bryant 1919 A, 195
 Stromer, E. 1925 B, 360
 Eocene (Manti); Utah.

Lepisosteus cycliferus (Cope).

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
 Merrill, G. P. 1907 A, 8 (Clastes).
 Eocene (Wasatch); Wyoming

Lepisosteus glaber Marsh.

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
 Cope, E. D. 1874 B, 441.
 Eocene (Bridger); Wyoming

Lepisosteus integer (Cope).

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus).
 Loomis, F. B. 1907 B, 358 (Lepidosteus).
 Merrill, G. P. 1907 A, 8 (Clastes).
 Stromer, E. 1925 B, 361 (Lepidosteus).
 Eocene (Wasatch); New Mexico.

Lepisosteus knieskerni Fowler.

- Fowler, H. W. 1911 A, 150, fig. 92. Cretaceous?; New Jersey.

Lepisosteus longus Lambe.

- Lambe, L. M. 1908 A, 9, 13, pl. i, figs. 7-9 (Lepidosteus). Oligocene (Cypress Hills); Saskatchewan.

Lepisosteus nahunticus (Cope).

- Hay, O. P. 1902 A, 377.
 Hussakof, L. 1908 A, 79, fig. 41.
 Miocene, North Carolina

Lepisosteus notabilis Leidy.

- Hay, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 A, 163 (Lepidosteus).
 Leidy, J. 1873 B, 192, 249, pl. xxxii, figs. 12, 13.
 Eocene (Bridger), Wyoming.

Lepisosteus occidentalis Leidy.

- Hay, O. P. 1902 A, 377.
 Bowen, C. F. 1915 A, 118, 148-151 (L. occidentalis, L. Haydeni).
 Brown, B. 1907 A, 842.
 1914 E, 358, 378.
 Cockerell, T. D. A. 1908 C, 163 (Lepidosteus occidentalis, L. Haydeni).
 Cross, W. 1896 A, 227.
 Gilmore, C. W. 1924 D, 27.
 Hatcher, J. B. 1905 B, 67 (Lepidosteus occidentalis, L. Haydeni).
 Hay, O. P. 1903 D, 119
 1910 B, 296
 Lambe, L. M. 1902 A, 29, pl. xiv, fig. 3
 1904 C, 21, 36, 43 (Lepidosteus)
 1907 B, 179 (Lepidosteus)
 Matthew, W. D. 1916 A, 485.
 Osborn, H. F. 1902 I, 11 (Lepidosteus).
 Peale, A. C. 1912 A, 746, 754 (Lepidosteus).
 Sternberg, C. M. 1924 A, 68 (Lepidosteus).
 Stromer, E. 1925 B, 360
 Williston, S. W. 1902 K, 953
 Cretaceous (Judith River) Montana (Hell Creek), Montana (Belly River), Alberta. (Lance), Wyoming Saskatchewan. (Arapahoe or Denver), Colorado

Lepisosteus osseus (Linn.).

- Unless otherwise indicated, the authors, as cited, spell this name *Lepidosteus*
 Hay, O. P. 1902 A, 377 (Lepidosteus)
 Abel, O. 1912 F, 429, fig. 305
 1919 A, 52, fig. 25
 Agassiz, L. 1835 B, 338
 Allis, E. P. 1919 C, 249
 Beer, G. R. 1926 A, 284 figs. 25-33
 Cockerell, T. D. A. 1908 C, 163.
 Collinge, W. E. 1893 C, 263, pls. iv-ix
 Cuvier, G. 1814 A, 76 (Esox)
 Goetsch, W. 1920 A, 14, 516, pl. 1 (Lepidosteus).
 Goodrich, E. S. 1901 A, 319, fig. 1
 1909 A, 512, figs.
 Hay, O. P. 1923 A, 363, 366 (Lepidosteus)
 Hertwig, O. 1874 B, pl. 1, figs. 1, 2 (Lepidosteus)
 Jackson, C. T. 1854 B, 92 ("gar-pike").
 Jordan and Evermann 1896 A, 109 (Lepidosteus).
 Jordan and Gilbert 1882 A, 91
 Klaatsch, H. 1890 A, 125, 200, pl. vii.
 Kostlin, O. 1844 A, 332 (Lepidosteus).
 Luther, A. 1913 B, 27, pl. 1, text-figs. 12, 13, 28 (Lepidosteus).
 Mayhew, R. L. 1924 A, 315.
 Norman, E. W. 1926 A, 437, fig. 50.

- Regan, C. T. 1923 B, 445 (*Lepisosteus*).
 Scupin, H. 1896 A, 166 (*Lepisosteus*).
 Sewertzoff, A. N. 1925 A, 273, fig. 3.
 1926 D, 78, fig. 1.
 Shepherd, C. E. 1910 B, 296, pl. II, fig. 6.
 1914 A, 262.
 Stephan, P. 1900 A, 355, fig. 3 (*Lepisosteus*).
 Vert, O. 1907 A, 157, figs. 1-12.
 1911 A, 93-225, pls. A-C
 Recent, Mississippi Valley Pleistocene;
 South Carolina.

***Lepisosteus platostomus* Rafinesque.**

- Rafinesque, C. S. 1820, Ichth. Ohnensis, 72
 Hay, O. P. 1917 E, 43
 1923 A, 382
 Jordan and Evermann 1896 A, 110.
 Mayhew, R. L. 1924 A, 315, pls. 1-iv (*Lepidos-*
teus)
 Parker and Haswell 1897 A, 203, fig. 826
 Regan, C. T. 1923 B, 445, figs. 2-5 (*Lepidos-*
teus).
 Recent, Great Lakes to the Gulf and
 southwestern Texas: Pleistocene (Middle?);
 Florida

***Lepisosteus simplex* Leidy.**

- Hav, O. P. 1902 A, 377
 Cockerell, T. D. A. 1908 C, 163 (*Lepidosteus*).
 1909 B, 796
 Hussakof and Bryant 1919 A, 195, pl. LVIII

- Merrill, G. P. 1907 A, 12.
 Sauvage, H. E. 1901 G, 81 (*Lepidosteus*).
 Schlosser, M. 1901 N, 480 (*Lepidosteus*).
 Stromer, E. 1925 B, 360
 Eocene (Bridger); Wyoming.

***Lepisosteus whitneyi* Marsh.**

- Hav, O. P. 1902 A, 377.
 Cockerell, T. D. A. 1908 C, 163 (*Lepidosteus*)
 Eocene (Bridger); Wyoming.

***Lepisosteus* sp. indet.**

- Gidley, J. W. 1915 E, 539 (This genus?) Upper
 Cretaceous (Fort Union); Montana
 1927 E, 274 Pleistocene; Florida
 Gilmore, C. W. 1916 D, 302, pl. lxxvii, fig. 5.
 Upper Cretaceous; New Mexico.
 1920 A, 8, 68 Upper Cretaceous (Kirt-
land), New Mexico
 1926 J, 28 Upper Cretaceous (Lance);
 Wyoming.
 Hay, O. P. 1903 D, 120
 1927 D, 274 Pleistocene, Florida
 Merrill, G. P. 1907 A, 7 (Clastes); 12 (*Lepi-*
osteus)
 Reeside, J. B. 1924 A, 21 Upper Cretaceous
 (Fruitland), 23 (McDermott), p. 31 (Ojo
 Alama), 38, 42 (Nacimiento); New Mexico.
 Sinclair and Granger 1914 A, 303 Eocene, New
 Mexico

ATRACTOSTEUS Rafinesque. Type *Lepisosteus* (A.) *ferox* Raf. (= *A. tristæchus*).

- Rafinesque, C. S. 1820, Ichth. Ohien., 75
 Gregory, W. K. 1920 A, 112, fig. 4 (*Lepidosteus*).
 Jordan and Evermann 1896 A, 109, 111
 Regan, C. T. 1923 B, 445, fig. 1 (*Lepidosteus*)

***Atractosteus emmonsi* sp. nov.**

- Emmons, E. 1858 B, 244, fig. 98 ("ganoid").
 Miocene?, North Carolina.

***Atractosteus lapidosus* Hay.**

- Hav, O. P. 1919 C, 110-111, pl. xxvi, fig. 4; pl.
 xxviii, fig. 8
 Hay, O. P. 1923 A, 375
 Pleistocene, Florida

***Atractosteus tristæchus* (Bloch and Schneider).**

- Bloch and Schneider 1801, Syst. Ichth., 395
 (Esch)
 Girard, C. F. 1858 Pacif. R. R. Explor., 353
 [*Lepidosteus* (*Atractosteus*) *berlandieri*]
 Gunther, A. C. 1870 A, 329 (*Lepidosteus viridis*).
 Hay, O. P. 1926 C, 1 (This species?).
 Jordan and Evermann 1896 A, 111 (*Lepisosteus*).
 1900 A, 3235, pl. xxii, fig. 50 (*Lepisosteus*)
 Jordan and Gilbert 1882 A, 92 (*Litholepis*).
 Rafinesque, C. S. 1820, Ichth. Ohien., 73 [*Lepi-*
osteus (*Atractosteus*) *ferox*].
 Recent, Southern States, Cuba, Mexico:
 Pleistocene (Early); Texas

Suborder AMIIFORMES, new name.

- Hav, O. P. 1902 A, 378 (*Halecomorphi*).
 Allis, E. P. 1909 A, 201 (*Halecomorphi*)
 Arldt, T. 1907 D, 282 (*Cyclolepidoti*)
 Beer, G. R. 1926 A, 289 (*Halecomorphi*)
 Cockerell, T. D. A. 1913 B, 122 (*Halecomorphi*)
 Cope, E. D. 1871 T, 452, 453 (*Halecomorphi*).
 1891 N, 22 (*Halecomorphi*)
 Coulon, L. 1903 A, 149 ("amioidees").
 Eastman, C. R. 1908 A, 63 (*Protospondyli*).
 1904 A, 494 (*Protospondyli*).
 1909 A, 327 (*Amioidei*).
 Goodrich, E. S. 1913 A, 80 (*Amioidei*).
 Gorjanovič-Kramberger, K. 1905 A, 195 (*Proto-*
spondyli).

- Gregory, W. K. 1907 D, 448, 466 (*Halecomor-*
phi)
 1923 A, 238, 240 (*Amioidea*).
 Huxley, T. H. 1861 D, 442, 448 (*Amioide*)
 Jaekel, O. 1911 A, 84 (*Ami*).
 Jordan, D. S. 1905 A, II, 33, 574 (*Halecomorphi*).
 1907 B, 261, 761 (*Halecomorphi*).
 1923 A, 115 (*Halecomorphi*).
 Jordan and Gilbert 1882 A, 92 (*Halecomorphi*).
 Kingsley, J. S. 1885 A, 97 (*Halecomorphi*).
 Oswald, F. 1909 A, 126 (*Amioidea*).
 Pompeck, J. F. 1913 A, 1144 (*Amioidei*).
 Regan, C. T. 1909 B, 76 (*Amioidei*, *Pachycor-*
moidi).

Schlosser, M. 1917 A, 136, 148 (Halecomorphi)
 Stromer, E. 1912 A, 31 (Amioides).
 1925 B, 361, 365 (Amioides)

Zittel and Koken 1911 A, 113 (Amioides).
 Zittel and Schlosser 1923 A, 113 (Amioides)
 Zittel and Woodward 1902 A, 89 (Amioides)

FURIDÆ Jordan.

Jordan, D. S. 1923 A, 116.

Unless otherwise indicated, the authors, as cited, use for this family the name *Eugnathidæ*.

Hay, O. P. 1902 A 378 (Isopholidæ).

Ardt, T. 1923 A, 495.

Boulenger, G. A. 1904 D, 498

Bridge, T. W. 1904 A, 498

Cunningham, J. T. 1912 A, 258.

Eastman, C. R. 1905 B, 100

1911 A, 29, 73.

Goodrich, E. S. 1904 A, 495.

Goodrich, E. S. 1909 A, 390.

Gregory, W. K. 1923 A, 238

Jordan, D. S. 1905 A, ii, 26 (Isopholidæ)

Pompeckj, J. F. 1913 A, 1144

Priem, F. 1908 B, 15 ("eugnathidés").

Regan, C. T. 1923 B, 457, 460

Stolley, E. 1920 A, 77

Swannerton, H. H. 1925 A, 98 (Eugnathidæ)

Woodward, A. S. 1906 C, 279 (Eugnathus)

Zittel and Koken 1911 A, 114 (Caturidæ).

Zittel and Schlosser 1923 A 116 (Caturidæ)

Zittel and Woodward 1902 A, 83

OTOMITLA Felix. Type *O. speciosa* Felix.

Felix, J. 1891 A, 189.

Woodward, A. S. 1896 E, 70

1898 B, 108.

Otomitla speciosa Felix.

Felix, J. 1891 A, 189, pl. xxv, fig. 3, pl. xxx, figs. 3-5

Woodward, A. S. 1895 A, 358

Cretaceous (Neocomian), Mexico

PTYCHOLEPIS Agassiz. Type *P. bollensis* Agassiz.

Agassiz, L. 1832 A, 142.

Hay, O. P. 1902 A, 378.

Agassiz, L. 1832 A, 142.

1833 A, 476

1835 H, 219

Alessandri, G. 1910 A, 123

Bronn, H. G. 1849 A, 663

Deecke, W. 1913 A, 74

1926 A, 193

Eastman, C. R. 1905 B, 100

1911 A, 21, 29, 73

Egerton, P. G. 1852 C, 6 H, i, pl. vii.

1855 A, 8 I, i, pl. viii

Henning, E. 1919 B, 173, pl. iii, text-fig.

Jordan and Evermann 1917 A, 140

Koken, E. 1893 B, 278.

Priem, F. 1908 B, 16.

Seepin, H. 1896 A, 169, pl. v, fig. 5

Zittel and Koken 1911 A, 116

Zittel and Schlosser 1923 A, 118

Zittel and Woodward 1902 A, 81

Ptycholepis marshi Newberry.

Newberry, J. S. 1878 B, 127

Hay, O. P. 1902 A, 378 (P. marshi)

Eastman, C. R. 1905 B, 100

1911 A, 29, 73, pls. viii, viii

Hussakof, L. 1908 A, 95, pl. vi

Loper, S. W. 1899 A, 98 (P. marshi).

Lull, R. S. 1917 D, 110

Lyman, B. S. 1894 A, 209 (P. marshi).

Moodie, R. L. 1918 B, 390

1923 B, 329

Triassic (Newark), Connecticut

MACROSEMIIDÆ Cope.

Hay, O. P. 1902 A, 378.

Abel, O. 1919 A, 204

Ardt, T. 1923 A, 495 ("macrosemiden")

Goodrich, E. S. 1904 A, 495.

1908 A, 769

1909 A, 336.

Gregory, W. K. 1907 D, 448.

1923 A, 238, 240.

Jordan, D. S. 1905 A, ii, 26, 580.

1907 B, 761.

1923 A, 115

Regan, C. T. 1923 B, 455, 460

Schlosser, M. 1917 A, 138, 140, 147 ("macrosemiden").

Stemmann, G. 1927 A, 75 (Macrosemiidæ).

Traquair, R. H. 1911 A, 29

Watson, D. M. S. 1925 A, 866 ("macrosemids")

Woodward, A. S. 1906 C, 279

Zittel and Koken 1911 A, 109

Zittel and Schlosser 1923 A, 110

Zittel and Woodward 1902 A, 84

MACREPISTIUS Cope. Type *M. arenatus* Cope.

Hay, O. P. 1902 A, 378.

Zittel and Woodward 1902 A, 84.

Macrepistius arenatus Cope.

Hay, O. P. 1902 A, 378.

Hill, R. T. 1901 A, 159, pl. xxiv.

Hussakof, L. 1908 A, 81.

Jordan, D. S. 1905 A, ii, 26

Lower Cretaceous (Glen Rose), Texas

PACHYCORMIDÆ Woodward.

- Hay, O P 1902 A, 378.
 Arldt, T. 1923 A, 495 ("pachycormiden").
 Bridge, T W 1904 A 501
 Dean, Gudger, Henn 1923 A, 624.
 Dollo, L 1892 F, 182 (Protosphyraenidæ)
 Goodrich, E S 1908 A, 769
 1909 A 331
 Gregory, W K 1923 A, 238
 Gudger, E W 1918 A, 100 (Protosphyraenidæ)
 Hennig, E 1920 B, 113
 Jordan, D S 1905 A, n, 34 (Pachycormidæ
 Protosphyraenidæ)
 1907 B, 761 (Pachycormidæ, Protosphyraenidæ)
 Jordan, D S 1923 A, 115
 Regan, C T 1923 B, 445.
 Schlosser, M. 1917 A, 136, 138 ("pachycormiden"); 142 ("protosphyraeniden").
 Stenmann, G 1927 A, 77
 Stromer, E. 1925 B, 361 (Protosphyraenidæ).
 Woodward, A S 1898 B, 109
 1922 C, 93
 Zittel and Koken 1911 A, 113
 Zittel and Schlosser 1923 A, 114 (Pachycormidæ), 115 (Protosphyraenidæ)
 Zittel and Woodward 1902 A, 90.

PROTOSPHYRÆNA Leidy. Type *P. ferox* Leidy.

- Hay, O P 1902 A, 379
 Andreae, A. 1901 A, 308
 1904 A, 309
 Arldt T 1923 A, 495 (Protosphyraena); 510 (Pelecopterus)
 Bayer, F 1908 A, 3 (Erisichte).
 1909 A, 103
 Cockerell, T D A 1919 A, 172.
 Cope, E D. 1880 U 146 (Erisichthe).
 Dean, Gudger, Henn 1923 A, 624
 Dollo, L 1892 F 182
 Eastman, C R 1901 B, 111.
 1917 A, 298
 Fossa-Mancini, E 1921 A, 196 (Pelecopterus).
 Gregory W K 1923 A 241.
 Gudger, E W 1918 A, 100.
 Hay O P 1902 F, 470
 1903 A, 2, 13, text-fig 6.
 Hennig E 1912 A, 489
 Jordan, D S 1905 A, n, 34.
 Lydekker R 1910 F 673
 McClung C E 1908 B 244, pl xiii; text-figs. 9, 10
 Mudge B F 1875 A, 122 ("new genus").
 Pompeck J F 1913 A, 1144
 Pneum F 1896 B 18
 1908 B, 49, fig 19
 Rogers, A F 1924 A, 545.
 Schlosser, M. 1917 A, 140, 141.
 Sternberg, C H 1907 C, 123.
 1917 A, 177 ("nout fish").
 Stomus R 1891 A, 154
 Stromer, E 1924 B, 349, 361.
 Woodward, A S 1895 G, 211, pl viii and text-figs 1-4
 1912 A (1908) 145
 1912 C, 329, pl xix
 Zittel and Koken 1911 A, 130
 Zittel and Schlosser 1923 A, 116, fig 202.
 Zittel and Woodward 1902 A, 91.
Protosphyraena angulata Cope.
 Hay O P 1902 A, 379
 Hussakof, L 1908 A, 92, fig 47 (This genus?).
 Cretaceous, North Carolina.
Protosphyraena bentoniana Stewart.
 Hay, O P 1902 A, 379.
 Cockerell T D A 1919 A, 171.
 Upper Cretaceous (Benton); Kansas
Protosphyraena chirurgus (Cope).
 Hay O P 1902 A, 379
 Upper Cretaceous (Niobrara); Kansas.
Protosphyraena dimidiata (Cope).
 Hay, O P 1902 A, 379
 1903 A, 16, text-figs 8-10, 11?, 12?
 Hussakof, L 1908 A, 92
 Cretaceous (Niobrara); Kansas
Protosphyraena gigas Stewart.
 Hay, O P 1902 A, 379
 Schlosser, M 1901 L, 479
 Upper Cretaceous (Pierre); Kansas.
Protosphyraena gladius (Cope).
 Hay, O P. 1902 A, 379
 1903 A, 24
 Hussakof, L 1908 A, 93
 Cretaceous (Niobrara), Kansas
Protosphyraena nitida (Cope).
 Hay, O P 1902 A, 379.
 Bayer, F 1909 A, 103
 Gudger, E W 1918 A, 100, pl vii, fig. 25.
 Hay, O P 1903 A, 3, text-figs 1-3.
 Hussakof, L 1908 A, 93, fig 48b.
 Zittel and Schlosser 1923 A, 115, fig 201.
 Upper Cretaceous (Niobrara), Kansas.
Protosphyraena obliquidens Loomis.
 Hay, O P 1902 A, 379.
 1903 A 7
 Upper Cretaceous (Niobrara), Kansas.
Protosphyraena occidentalis Stewart.
 Hay, O P 1902 A 380.
 Andreae, A 1904 A, 309 (Ichthyodectes).
 Upper Cretaceous (Niobrara), Kansas.
Protosphyraena penetrans (Cope).
 Hay, O P 1902 A, 379.
 Bayer, F 1909 A, 103
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena pernicioso (Cope).

- Hay, O. P. 1902 A, 379.
 1903 A, 9, pl. 1, fig. 1; text-figs 4, 5, 7.
 Hussakof, L. 1908 A, 94.
 Woodward, A. S. 1912 A, (1908), 146, 150, text-fig 43
 Upper Cretaceous (Niobrara), Kansas.

Protosphyraena recurvirostris Stewart.

- Hay, O. P. 1902 A, 379.
 Upper Cretaceous (Niobrara), Kansas.

Protosphyraena sequax Hay.

- Hay, O. P. 1903 A, 20.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena tenuis Loomis.

- Hay, O. P. 1902 A, 379.
 1903 A, 14, pl. 1, figs 2, 3
 Hussakof, L. 1908 A, 94
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena xiphioides (Cope).

- Hay, O. P. 1902 A, 379
 1903 A, 22, text-figs 13, 14
 Hussakof, L. 1908 A, 95, fig 48a.
 Upper Cretaceous (Niobrara); Kansas.

Protosphyraena sp. indet.

- Hill, R. T. 1901 A, 328. Lower Cretaceous (Eagle Ford), Texas.
 Hussakof, L. 1908 A, 95 Upper Cretaceous (Niobrara); Kansas.
 Sterner, C. H. 1913 A, 48. Upper Cretaceous (Niobrara), Kansas.

AMIIDÆ Günther.

- Günther, A. C. 1870 A, 324
 Hay, O. P. 1902 A, 380.
 Abel, O. 1919 A, 212
 Arlitt, T. 1907 D, 637
 1912 A, 716, 762
 1923 A, 495 ("amiiden")
 Braus, H. 1901 B, 217, 282 ("amiaden").
 Bridge, T. W. 1896 A, 537
 1904 A, 499, 730
 Cockerell, T. D. A. 1913 B, 122
 Collinge, W. E. 1894 A, 529
 1895 D, 83
 Cunningham, J. T. 1912 A, 246
 Cuvier, G. F. 1805 A ("amies").
 Dean, Gudge, Henn. 1923 A, 624, 649.
 Duméril, A. 1870 A, 18, 398 ("amiadés")
 Fitzinger, L. J. 1873 A, 51 (Amiæ)
 Grebel, C. G. 1855 A, 111 (Amiadæ)
 Gill, T. 1875 B, 252.
 1885 B, 18.
 Goodrich, E. S. 1908 A, 769
 1909 A, 333
 Gregory, W. K. 1923 A, 238, 240
 Hoernes, R. 1886 A, 557 (Amiadæ)
 Jordan, D. S. 1905 A, ii, pp 34, 556
 1907 B, 262 (Amudæ), p. 761 (Amiadæ).

- Jordan, D. S. 1923 A, 116.
 Jordan and Gilbert 1882 A, 92.
 Kner, J. 1924 A, 95, 97, 125 (Amioidæ)
 Klaatsch, H. 1890 A, 178 ("amiaden").
 1893 B, 667 ("amiaden").
 Lambe, J. M. 1905 D, 370 A.
 Lemome, V. 1889 A, 233 ("amiadés")
 Leucke, M. 1900 A, 183 (Amiadæ).
 Leunis and Ludwig 1883 A, 775.
 Lonnberg, E. 1901 A (Amiadæ).
 Lutken, C. 1871 A, 293 ("amides").
 Pompeckj, J. F. 1913 A, 1144.
 Rabl, C. 1901 A, 489 ("amiaden")
 Rauther, M. 1913 A, 1100.
 Regan, C. T. 1923 B, 455
 Schlosser, M. 1917 A, 144 ("amiiden")
 Scipin, H. 1896 A, 174, 184 (Amiadæ)
 Sewertzoff, A. N. 1923 B
 Shepherd, C. E. 1914 A, 262 (Amidæ)
 Stannius, H. 1854 A (Amiæ).
 Stromer, E. 1925 B, 361
 Wallace, A. R. 1876 A, ii, 458
 Woodward, A. S. 1902 C, 83 ("amioids")
 Zittel and Koken 1911 A, 116 (Megaluridæ)
 Zittel and Schlosser 1923 A, 119 (Megaluridæ).
 Zittel and Woodward 1902 A, 91

AMIOPSIS Kner. Type *A. prisca* Kner.

- Hay, O. P. 1902 A, 380
 Jordan, D. S. 1905 A, ii, 36.
 Sauvage, H. E. 1900 B, 116

Amiopsis? dartoni Eastman.

- Hay, O. P. 1902 A, 380
 Gilmore, C. W. 1905 A, 80.
 Hussakof, L. 1916 C, 348
 Sauvage, H. E. 1900 B, 116
 Jurassic (Basal); South Dakota.

AMIA Linnæus. Type *Amia calva* (Linn).

- Hay, O. P. 1902 A, 380.
 Abel, O. 1919 A, 37, 214, figs 9, 10.
 Adams, L. A. 1919 A, 69, pl. ii.
 Allis, E. P. 1897 A, 1.
 1898 A.
 1898 B, 83.
 1903 A, 660.
 1903 B.

- Allis, E. P. 1905 A, 401
 1907 A, 569
 1909 A, 213
 1914 A, 357.
 1915 A.
 1918 A, 241
 1918 B, 258
 1919 A, 353

- Allis, E P 1919 B, 73.
 1919 C, 245.
 1919 D, 219.
 1919 E, 365, 366, 369.
 1922 B
 1922 C, 13.
 1923 A, 41, 46.
 1923 B, 125, 163.
 1925 A, 76
 1926 A, 169
 Arldt, T 1907 D, 284.
 1923 A, 495 (*Amia Protamia*, *Hypamia*).
 Baialdi, G 1877 A, 12.
 Beer, G R 1924 A, 26, figs 8-14, 16.
 1926 A, 289 330, figs 34-49, 107, 113, 131
 Boas, J. E. V 1914 B, 543.
 Braus, H 1901 B 217
 Bridge, T W 1878 A, 712
 1896 A, 537, pl xxi.
 1904 A, 500, 730
 Cockerell, T D A 1908 A, 574
 1911 B, 865
 1913 B, 121, 122
 Cockrell and Moor 1910 A, 252
 Cunningham J T 1912 A, 258, 309, 321, 495
 Cuvier G 1815 A 109
 Day, H 1915 A, 431
 Dean, B 1895 C, 734.
 1896 D, 338
 Dean Gudger, Henn 1923 A, 668 (*Amia*)
 Deecke, W 1913 A, 71.
 Derjugin, K 1909 A.
 1910 A 629
 Dollo, L 1893 D, 3
 Duméril A 1856 A, 490 ("amie").
 1870 A 398 416.
 Eastman, C R 1911 A, 18
 1917 A 282
 Edgeworth F H 1925 A 240, figs 26 28
 1926 A 18 figs 14-17.
 Egeton P G 1852 C, 6 L, 2
 Emmer, G H T 1901 A, 61
 Fitzinger, L J 1873 A, 51.
 Frost G A 1913 A, 221.
 Gadow, H 1896 A, 7, 22.
 Gnapp, E 1898 B, 820
 1901 B 935
 1905 D, 900
 1906 B
 1911 A, 420
 Gegenbaur C. 1867 B, 419, pl. viii, fig. 13; pl.
 ix, fig 22
 Giebel, C G 1855 A, 111.
 Goetsch, W 1915 A, 435.
 Goodrich, E S 1904 A, 477
 1908 A, 769.
 1908 B, 546
 1909 A 506, figs.
 Green, J 1862 A, 218.
 Gregory, W K 1915 D, 326, fig 4.
 1922 A, 9
 Haller, B 1906 A, 255
 Hase, A 1907 A.
 1913 A, 148, fig. 69.
 Hasse, C 1893 C, 94, pl vi, figs. 14, 15.
 Hasse and Schwarck 1870 A, 30.
 Hatschek, B 1889 B, 115.
 Hay, O P. 1897 A. 131.
 Heckel, J. J. 1850 A, 365
 1850 B, 145.
 1851 A, 219
 Heilprin, A. 1887 A, 68, 301
 Hilgard, T C 1860 A, 679.
 Hubbs, C L 1919 B, 62.
 Huxley, T H 1861 D, 456
 1863 F, 427.
 1876 E, 121.
 1883 B, 567, 570, fig 2
 Hyrtl, C J 1862 A, 97
 Jordau D S 1905 A, ii, 35, 556
 1907 B, 262
 1917 A, 23
 Jordan and Evermann 1917 A. 23, 91.
 Jordan and Gilbert 1882 A, 94
 Kehrer, F A 1896 A, 350.
 Kesteven, H L 1922 A, 312
 Kmdied, J E 1919 A
 Kingsley J S 1885 A, 97.
 1925 A, 222, figs. 233, 249.
 Klatzsch, H 1890 A, 179
 1893 B, 667.
 Kryzanovsky S 1916 A. 237.
 Lakjer, T 1927 A figs 68, 81, 105
 Leriche, M 1900 A, 183
 1906 C, 411
 Leunis and Ludwig 1883 A, 775.
 Locy W A 1894 A, 179.
 Lubosch, W 1911 B, 741.
 Luthi, A. 1913 B, 22, 58
 Lutken, C 1871 A, 293.
 McMurrich J P 1883 A, 627.
 Mitthes, E 1921 A, 221
 Mayhew, R L 1924 A, 317
 Meek A. 1916 A, 52
 Minall, L C 1872 A, 29, 30
 Moodie, R L 1908 G, 515, fig 2.
 Newton, E T 1899 C, 1, pl 1.
 Norman, E W 1926 A
 Owen, R 1866 A, 37, 108
 Parker and Bettany 1877 A, 85
 Pehrson, T. 1922 A, 1-63
 Priem F 1900 A, 842
 1901 A 488, 502
 1908 B 81, 90, 123, fig 62
 1911 C 34, figs 40-42
 Rafinesque, C S 1815 A, 380 (*Amiatus*).
 Regan, C T. 1912 B, 839.
 1923 B, 451, 455
 Reynolds, S H 1897 A, 532
 Ridewood W G. 1904 A, 56
 1921 A, 329, 335.
 Romer, A S 1924 A, 123, 128, figs 2, 3.
 Scharff, R F. 1911 A, 163
 Schaumland, H 1906 A, 437
 Schlosser, M. 1917 A, 140, 142
 Schmalhausen, J J 1912 A, 526, 560, pls xv-
 xviii
 1913 A, 5, 16
 1923 B, 544.
 Schreiner, K E. 1902 A, 467.
 Seupin, H 1896 A, 175, pl. x, fig 12.
 Sewertsoff, A. 1896 A, 240
 1918 A, 207
 1923 B, fig 3.

- Sewertsoff, A 1925 A, 274
 1926 A
 1926 C, 42
 1926 D, 78, figs 2, 3
 Shepherd, C E 1910 B, 296
 Stadtmüller, F 1926 A, 161, fig 7.
 Stannius, H 1854 A
 Starks, E C 1904 A, 260
 1916 A, 13 (Amniatus).
 Steinmann, G 1912 B, 726
 Stensio, E A 1921 A, 274
 1922 A, 1265
 1925 A, 22, 31
 1925 B, 106, 162
 Stephan, P 1900 A, 293.
 Swinnerton, H W 1905 A, 373
 Totton, A K 1914 A, 258
 Traquair, R H 1900 C, 508.
 Uhlmann, E 1921 A, 322
 Van Wijhe, J W 1922 A, 293
 Watson, D M S 1925 A, 820, 824, 851, 860,
 865, 867
 Wegner, R N 1922 A, 482, text-fig 40.
 White C A 1885 A, 64
 Whitehouse, R H 1910 B, 595
 1910 C, 137
 1918 A, 136
 Wilder, B 1876 A, 151, 166
 Williston, S W. 1925 A, 98
 Woodward, A S 1902 C, 88
 1906 C, 279
 Zittel and Koken 1911 A, 117
 Zittel and Schlosser 1923 A, 119
 Zittel and Woodward 1902 A, 92.
- Amia calva* Linnaeus.**
Linnaeus, C 1766, Syst Nat, ed xii, 500
Allis, E P 1897 A, 1
 1898 A, 425, pl. xxvii
 1898 B, 85
 1905 A, 404
Baker F C 1920 A, 453
Beer G R 1924 C, 304, figs 13-26
 1926 A, 289
Cockerell, T D A 1908 C, 163
 1910 F, 1
 1911 F 369
 1913 B, 122, fig 1.
Creaser, C W 1926 A, 18
Dean, B 1914 A, 60 ("bowfin")
Degener, L M 1924 A, 113, pls i-viii, text-
 fig 1
Duméril, A 1870 A, 421
Franque H 1847 A pl 1.
Gaupp, E 1901 B, 935, fig 1
Goetsch, W 1915 A, 452, pls. xviii, xix; text-
 fig 3
 1920 A 12, 14 438, 515, pl 1.
Goodrich, E S 1901 A, 318, fig. H.
 1904 A, 477
Hague F 1924 A, 267, pls. i-iii
Hay, O P 1912 D, 552 ("bowfin")
 1917 E, 43 (Amniatus)
 1923 A, 336, 382 (Amniatus).
Heronimus, C 1911 A, 193, figs. 1-5.
Hofer, B 1899 A, 106, 118
Hvrtl, C J 1862 A, 97, pl. ii, fig 3.
- Kingsley, J S* 1885 A, 97
Meek, A 1916 A, 52.
Newton, E T. 1899 C, 4
Noiman, E W. 1926 A, 409, figs 43, 48, 50, 54
Nusbaum, J 1908 A, 514
Parker and Haswell 1897 A, 204, fig 826
Pehrson, T 1922 A, 1-63, figs. 1-20
Priem, F 1908 B, 81
Regan C T 1923 B, 451, figs 6-8.
Romer and Fryxell 1928 A, 519.
Schaumsland, H 1906 A 436, figs 235, 237-240,
 242-250
Schmalhausen, J J 1913 C, pls i-vi
Sewertsoff, A N 1925 A, 273, fig 2.
 1926 A, 531
Shepherd, C E 1914 A, 262
Stephan, P 1900 A, 380
Willey A 1920 A, 89
Woodward A S 1895 A, 369, figs 37-39
Zittel and Schlosser 1923 A, 119, figs 22, 211,
 212
 Recent, Great Lakes to Texas and Florida
 Pleistocene (Middle?), Florida (Late), Illi-
 nois
- Amia depressa* Marsh.**
Hay O P 1902 A, 380
Cockerell, T D A 1908 C, 163.
Romer and Fryxell 1928 A, 526
 Middle Eocene (Bridger), Wyoming
- Amia dictyocephala* Cope.**
Hay, O P 1902 A 380
Cockerell, T D A 1906 A 163.
 1908 C, 163
Husakov L 1906 A 60 fig 29
Merrill, G P 1907 A 6
Romer and Fryxell 1928 A 526
 Miocene (Florissant), Colorado
- Amia elegans* (Leidy).**
Hay O P 1902 A, 381
Cockerell T D A 1908 C, 163
Romer and Fryxell 1928 A, 524 (Hypamia)
 Middle Eocene (Bridger), Wyoming
- Amia exilis* Lambe.**
Lambe L M 1908 A, 9 12, pl 1, figs 1-6.
 Oligocene (Cypress Hills), Saskatchewan
- Amia gracilis* Leidy.**
Hay O P. 1902 A, 381
Cockerell T D A 1908 C, 163
Romer and Fryxell 1928 A, 527 (Protamia)
 Middle Eocene (Bridger), Wyoming.
- Amia macrospondyla* Cope.**
Hay, O P 1902 A, 381
Lambe, L M 1904 C, 27, 38, 43
 1908 A, 9, 12
Romer and Fryxell 1918 A, 527
 Oligocene (White River), Assiniboia.
- Amia media* Leidy.**
Hay, O P 1902 A, 381
Cockerell, T D A 1908 C, 163

Cope, E D 1884 O, 60, pl. iv, figs 7-20 (Pappichthys).

Merrill, G. P. 1907 A, 6 [*Amia* (*Protamia*)], 14 (Pappichthys)

Romer and Fryxell 1928 A, 527 (Protamia).
Middle Eocene (Bridger); Wyoming.

***Amia newberriana* Marsh.**

Hay, O P. 1902 A, 381.

Cockerell, T D. A. 1908 C, 163

Romer and Fryxell 1928 A, 526

Middle Eocene (Bridger), Wyoming

***Amia scutata* Cope.**

Hay O P 1902 A, 381.

Cockerell, T D A. 1908 C, 163.

Merrill, G P 1907 A, 6

Romer and Fryxell 1928 A, 526.

Miocene (Florissant), Colorado.

***Amia nintaensis* Leidy.**

Hay, O P. 1902 A, 381.

Cockerell T D A 1908 C, 163.

Middle Eocene (Bridger), Wyoming.

***Amia whiteavesiana* Cope.**

Hay, O P. 1902 A, 381.

Lambe, L M. 1904 C, 27, 38, 43

1908 A, 9, 12

Romer and Fryxell 1928 A, 527 (*A. whiteavesiana*)

Oligocene (White River); Assiniboia.

PAPPICHTHYS Cope. Type *P. plicatus* Cope.

Hay O P. 1902 A, 381

Aldt, T 1923 A, 495

Jordan D S 1905 A, n, 36.

Lericht, M 1900 A, 185.

Newton, E T. 1899 C, 1.

Priem, F. 1901 A, 488

Romer and Fryxell 1928 A, 525 (Syn of Protamia).

Schlosser M 1917 A, 144.

Seeley, H G 1886 A, 412.

Stromer, E 1925 B, 361.

Zittel and Koken 1911 A, 117

Zittel and Schlosser 1923 A, 120.

***Pappichthys corsoni* Cope.**

Hay, O P 1902 A, 381

Merrill, G P 1907 A, 14 (*P. corsoni*, *P. symphysis*).

Romer and Fryxell 1928 A, 527 (*P. corsoni*, *P. symphysis*)

Middle Eocene (Bridger); Wyoming.

***Pappichthys laevis* Cope.**

Hay, O P 1902 A, 381.

Hussakof L 1908 A, 86.

Merrill G P. 1907 A, 14.

Romer and Fryxell 1918 A, 525.

Middle Eocene (Bridger) Wyoming.

***Pappichthys plicatus* Cope.**

Hay, O P 1902 A, 381.

Hussakof, L. 1908 A, 86

Merrill, G P. 1907 A, 14

Peterson, O A 1919 A, 41 (This species?).

Middle Eocene (Bridger), Wyoming Upper Eocene (Uinta), Utah

***Pappichthys sclerops* Cope.**

Hay, O P 1902 A, 381

Merrill, G P 1907 A, 14

Romer and Fryxell 1928 A, 525

Middle Eocene (Bridger), Wyoming

***Pappichthys* sp. indet.**

Brown B 1907 A, 842 Upper Cretaceous (Hell Creek), Montana

Gilmont, C W 1924 D, 27. Upper Cretaceous (Lance), Saskatchewan

Hay O P 1927 D, 266-268

Lundgren and Drake 1904 A, 3 (This genus?).

Pleistocene (Idaho), Idaho

Lucas, F A 1900 H, 99 Pleistocene? Idaho.

Merrill G P 1907 A, 14 Eocene (Bridger), Wyoming

Russell, L S 1928 A, 107. Paleocene?, Alberta

Sternberg, C M. 1924 A, 68 (Pappichthys). Upper Cretaceous (Lance), Saskatchewan

PARAMIATUS Romer and Fryxell. Type *P. gurlcyn* Romer and Fryxell.

Romer and Fryxell 1928 A, 519

***Paramiatus gurlcyn* Romer and Fryxell.**

Romer and Fryxell 1928 A, 519, figs 1-3

Eocene (Green River); Wyoming.

STYLOMYLEDON Russell. Type *S. lacus* Russell.

Russell, L S 1928 A, 103.

1928 B, 264.

The systematic position of this genus is uncertain.

***Stylomyleodon lacus* Russell.**

Russell, L S 1928 A, 103, figs. 1-4.

Paleocene (Paskapoo); Alberta.

***Stylomyleodon* sp. indet.**

Russell, L S 1928 A, 103. Upper Cretaceous (Lance), Wyoming

PLATACODON Marsh. Type *P. nanus* Marsh.

Hay, O P 1902 A, 565.

Gilmore, C W 1924 A, 68

Palmer, T. S 1904 A, 542, 887.

The relationships of this genus are very uncertain

Platacodon nanus Marsh.

Hay, O P 1902 A, 565.

Ameghino, F 1893 C, 81

Bowen, C F 1915 A, 120

Hatcher, J B 1901 A, 128, pl. 1, figs 5, 6.

Lull, R. S 1915 D, 323, 345.

Russell, L. S 1928 A, 106.

Upper Cretaceous (Lance); Wyoming

Platacodon sp. indet.

Gilmore, C W 1924 A, 68. Upper Cretaceous (Lance), Saskatchewan

1924 D, 27 (Platacodon) Upper Cretaceous (Lance); Saskatchewan.

Sternberg, C M 1924 A, 68 Upper Cretaceous (Lance), Saskatchewan.

Superorder TELEOSTEI Muller.

Muller J 1846 C

Hay, O P 1902 A, 356 (Teleostomi, in part).

Abel O 1912 F, 300.

Aladina, M 1910 A, 239 ("téléostéens")

Allis, E P 1898 B, 83 ("teleosts")

1915 A

1918 A, 241.

1918 B, 263

1919 A, 372

1922 A, 152

1922 B

1922 C, 3

1923 A, 52

1923 B

1925 A, 75

1926 A, 169

Anthony, R 1912 A ("téléostéens")

Aldt T 1907 D, 684

1923 A, 495 ("teleostier").

Ayers, H 1906 A, 77

Baeh, W B 1906 A, 629 ("teleostier")

Baraldi G 1877 A, 28, 44

Bardleben K 1896 A, 113 ("teleostier")

1907 A, 36 ("teleostier")

Beer, G R 1927 A, 296, 330.

Belling, D E 1912 A, 46

Bluntchli, H 1912 B, 382 ("teleostier")

Boker, H 1927 A, 15 ("teleostier").

Boulenger G A 1901 A, 261 ("teleostean fishes").

1901 D 43

1902 B, 295

1904 A, 162.

1904 D, 541

Brandt, J F 1865 A, 22.

Braus, H 1906 A ("teleostier")

Budge, T. W 1878 A, 705

1896 A 544

Brohl, E 1909 A, 345, 360 ("teleostier")

Brom, H G. 1848 B, 1218.

1849 A 812, seq

1862 B, 380

Carlet, G 1878 A, 1 ("téléostéens")

Carter, J T 1905 A, 129.

Cartier O 1875 A, 69 ("teleostier").

Carus, V 1875 A, 516

Cockerell, T D A. 1911 F, 367 ("teleosts").

Collinge, W E 1895 B, 274.

1895 C 888

Cunningham, J T. 1897 A, 492 ("teleostéans")

1912 A 245, 246.

Dana, J D. 1863 C, 343 ("teleosts").

Dean, Gudge, Henn 1923 A, 703

Derjugin, K 1909 A

1910 A, 572 ("teleostier").

1910 B, 209 ("teleostier")

Derjugin and Rozhdestvensky 1912 A, 643 ("teleostier")

Dietz, P A 1914 A, 99

1917 A, 79 ("teleostier")

Dollo, L. 1889 E, 153 ("téléostéens")

1892 D, 120 ("téléostéens")

1909 B, (135).

Dombrowski, B A 1925 A 70, fig 3.

Domitser M 1852 A, 62 ("teleostier")

Eastman, C R 1917 A, 244

Ebner V. 1896 A 146 ("teleostier").

Eggenburg H 1906 A, 105 ("teleostier")

Elliot, A J M 1907 A, 648

Emery, C 1895 A, 224 ("téléostéens")

Fiebiger J 1905 A, 141 ("teleostier")

Frassetto F 1915 A

Fulton T W 1906 A 48 ("teleostean fishes")

Furbringer, K 1903 A, 377 ("teleostier")

Furbringer, M 1904 A ("teleostier")

Gaupp, E 1897 A, 543 ("teleostier")

1898 B ("teleostier")

1901 B 935 ("teleostier").

1903 A 113 ("teleostier")

1905 D, 911 ("teleostier")

1905 E, 161 ("teleostier")

1906 B ("teleostier")

Gegenbaur, C 1886 A, 123 ("teleostier")

1867 A, 60 ("teleostier").

1867 B, 377, 393 ("teleostier").

1871 B ("teleostier")

Gill, T 1885 C, 98-298

1905 A, 659

1909 B, 838

Goette, A 1879 A, 117 ("teleostier").

1901 A, 557 ("teleostier")

Goetsch W. 1915 A, 435 ("teleostier").

1920 A, 12 ("teleostier")

Goodrich, E S 1904 A, 471

1906 A, 344 ("teleosts").

1922 A, 505 ("teleosts")

1924 A, 935

Gregory, W K. 1904 A, 62.

1907 D, 449, 466

Haeckel, E 1868 A, 441, 446

1873 A, 512, 516

1893 A, 242 ("teleostier").

Haller, B 1906 A, 231 ("teleostier")

Hamburger R 1904 A, 75 ("teleostier")

- Hammarsten, O. D. 1911 A ("teleostier").
- Harrison, R. G. 1893 A, 248 ("teleostier").
1894 A ("teleosts").
1895 A, 500 ("teleostier").
- Hase, A. 1907 A, 607 ("teleosteer").
1913 A, 147.
- Hasse, C. 1872 A, 419 ("teleostier").
1873 A, 603 ("teleostier").
1873 B, 614 ("teleostier").
- Hasse and Schwarck 1870 A, 29, 44 ("teleostier").
- Hatschek B. 1889 B 115
- Hawkes, O A M 1905 A, 82 ("teleosts")
- Heckel J. 1850 B, 143 ("teleostier").
1851 A, 219 ("teleostier").
- Hennig, E 1920 B, 113 ("teleostier").
- Hill, C 1900 A, 426
- Hilzheimer, M 1913 A, 471 ("teleostier").
- Hofer, B 1890 A, 106 ("teleostier").
- Hoernes, R 1886 A, 526
- Hubbs, C L. 1919 A, 570.
1926 A, 73 ("teleosts")
- Huxley, T H 1859 D, 420
1859 H, 36
1861 D, 449
1863 F, 427.
1876 E, 103, 121.
1880 E, 471
1883 B 570
- Jacobsen E 1920 A 88 ("teleosteer")
- Jaekel O 1903 F, 37 46 ("teleostier")
1906 A 16 ("teleostier")
1908 B 409 ("teleostier")
1909 D, 719 ("teleostier")
1911 A, 87 (Teleostea)
- Jordan D S 1885 A, 98
1907 B, 225, 761
1909 A, 565 ("bony fishes")
1923 A, 116
- Keyes C A 1922 A, pl. in
- Kner, J 1924 A 95, 113
- Kingsley J S 1894 A 640 ("teleosts")
1900 A 249 ("teleosts")
1912 B 79, figs 76-78
1925 A, 12 33, 105, 237 ("teleosts")
- Klaatsch H 1890 A, 155 182, 217 ("teleostier").
1893 B, 654 ("teleostier")
1893 C, 181
- Kolzoff N K 1896 A, 514 ("teleostier")
- Koschkaroff, D. N. 1906 A, 209 ("teleostier").
- Laaser, P. 1903 A, 571 ("teleostier")
- Lakjer, T 1927 A, 278
- Leunis and Ludwig 1883 A, 657.
- Lonnberg, E 1901 A.
- Lutken C. 1868 C
1871 A, 286 ("téléostéens").
- McMurrich, J P. 1883 A, 640
- Matthes, E 1921 A, 226 ("teleostier").
- Meek, A. 1916 A, 59.
- Menmur W H 1902 A, 273.
- Miall, L C 1872 A, 31 ("teleostean")
- Muller, J 1845 A, 129, 135
- Nauck, E. T 1926 B, 69 ("teleostier").
- Norman, E W 1926 A ("teleosts").
- Nusbaum, J. 1907 A, 297 ("teleostier").
1908 A, 515 ("teleostier").
1908 B, 505 ("teleostier").
- Oswald F. 1909 A, 126.
- Paget and Savage 1916 A, 258 ("teleostean fish")
- Palacký, J. 1902 B, 141 ("teleosteer")
- Parker W K. 1879 C, 341.
1881 C, 71.
1888 C, 399
- Parker and Haswell 1897 A, 204
- Pehrson, T 1922 A ("teleosts").
- Petromexies B 1919 A, 413 ("téléostéens")
- Pompeck, J F 1913 A, 1145
- Prince E E 1887 A 697 ("teleosteans")
- Pueroni N 1908 A, 56
- Pychnau, W 1908 A, 692 ("teleostier")
- Raither M 1913 A, 1100.
1919 A 214 ("teleostier")
- Regan C T 1904 A, 330, 331, 346.
1909 A, 66 ("teleosteans").
1909 B, 75, 76
1912 B 841
1923 B, 458 (Teleostei, Neopterygii in part)
- Retterer, E 1905 C 246 ("téléostéens")
- Reynolds, S H 1897 A, 105, 106, 126, 556
- Ridewood, W G 1894 A, 635
1896 A 389
- Rose, C 1897 A, 60 ("teleostier").
- Robon J V 1902 A, 25 ("teleostier").
- Romer A S 1924 A 122 138, figs 1, 10
- Rosén, N 1915 A 1 ("teleostier")
1916 A, 24
- Ryder J 1885 E, 93 ("teleosts").
1886 A, 71
- Sabatier A 1898 A, 928 ("téléostéens")
- Sagemehl, M 1883 A ("teleostier").
1884 A ("teleostier")
- Sauvage, H E 1872 A, 118 ("téléostéens")
- Schaumsland, H 1906 A 456 ("teleostier")
- Scheel, C. 1893 A, 1 ("teleostier")
- Schlep, W 1904 A, 335 ("teleostier").
- Schlesinger G 1909 A, (147).
- Schlösser, M 1898 D, 120 ("teleostier").
1917 A 137, 138 ("teleostier")
- Schmalhausen J J 1912 A, 542
1916 C, 207 ("teleosts")
- Schmid-Momard, C 1883 A, 97 ("teleostier").
- Schone, G 1902 A, 1 ("teleostier")
- Schuchert, C 1915 A, 690.
- Semon R 1898 A, 100 ("teleostier").
- Sewertzoff, A 1896 A, 242 ("teleostier").
1918 A, 207
1925 A, 276
1926 A, 481.
1926 C, 42
1926 D, 83
1926 F, 274
- Shann, E W 1919 A, 558
- Siebenrock, F 1901 A, 105 ("teleostier").
- Solger, B. 1880 A, 388.
- Somes, F 1907 A, 405 ("teleostier").
- Stadtmüller, F 1926 A, 156, figs 1, 2 ("teleostier")
- Stannius H 1854 A, 4, seq.
- Stensio E A. 1921 A, 276.
1925 A, 51, 62, 119.
- Stephan, P. 1898 A, 355 ("téléostéens").
- Stohr P. 1882 A, 71 ("teleostier").

- Stromer, E 1912 A, 32, 48
1917 A, 22
1925 B, 348, 350.
- Supino, F 1904 A, 625.
- Swinnerton, H H 1905 A, 319, 321 ("teleosts").
- Swinnerton, H W 1905 A, 363 ("teleosts")
- Terra, P 1911 A, 206
- Tichomirov, A 1885 A, 533 ("teleostier").
- Tins, H W 1905 A, 39, 58
- Tomes, C S 1875 C, 362.
1876 A, 257
- Totton, A K 1914 A, 257 ("teleosts").
- Traquair, R H 1870 A, 166
1900 C, 508
- Uhlmann E 1921 A
- Ussow S 1900 A, 175 ("teleostier").
- Vent O 1907 A, 174 ("teleostier")
- Wallace, A R 1876 A, n, 424.
- Walther, J. 1882 A, 82 ("teleostier")
- Watson, D. M S 1925 A, 851, 865
1926 A, 262 ('teleosts')
- Whitehouse R H. 1910 B, 590.
1910 C, 135 ("teleosts").
1918 A, 139 ('teleosts').
- Woodward, A S. 1898 C, 257
1906 A, 314 ("teleosteans")
1915 B, lxxiv ("teleostean fishes").
1922 C 96
- Woodward H 1878 A, 22
- Wright, W 1909 A 672 ('teleostean fishes')
- Zittel and Koken 1911 A, 117.
- Zittel and Schlosser 1923 A, 120
- Zittel and Woodward 1902 A, 92

Class OSTARIOPHYSI.

- Abel, O 1919 A pp 56, 157.
- Allis, E P 1905 A, p 420.
- Ardt, T. 1923 A, p 505 ("ostariophysen").
- Boulenger G A 1901 D, p 129
1904 A, pp 162, 165
1904 D, p 573
1918 B, p 199 ("ostariophysiens")
- Budge and Haddon 1893 A, 65 (Ostariophysæ)
- Chraulov, I 1926 A, 49
- Cope, E D 1891 N, 22 (Plectospondyli)
- Cunningham J T 1912 A, 247.
- Dean, Gudgei Henn 1923 A, 693
- Dietz P A 1917 A, 84
- Eigenmann C H 1890 B, 10 (Ostariophysæ)
- Frost G A 1925 A, 553
- Gaupp F 1898 B 823, 865 ("ostariophysen")
- Gill, T 1905 A 659
1905 C p 617 ('ostariophysal fishes')
- Goodrich E S 1909 A, 371 (Cypriniformes)
- Gregory W K 1907 D, 449 472
- Hubbs C L 1919 B, 61
- Jaekel, O 1911 A, 69, 90
- Jordan, D S 1904 A, 598
1905 A, n 159, 584
1907 B, 265, 378, 763.
1923 A, 134
- Jordan and Evermann 1896 A 114
- Klaatsch, H 1890 A 185 ("ostariophysen")
- Meek, A 1916 A 168
- Muller, J. 1846 C (Physostomi, in part)
- Norman, E W 1926 A, 405.
- Nusbaum, J 1908 A, 514 ('ostariophysen').
- Rauther, M 1913 A, 1100
- Regan, C T 1909 B, 77.
1911 F 13
1911 G, 553
1912 B, 841, 843
1922 A, 203
1924 A, 175
- Ridewood, W G 1904 B, 215
- Sachs M M 1912 A, 725
- Sagemehl M 1884 A, 22, 25 ('ostariophysen')
- Schlesinger, G 1909 A (151)
- Sorensen, W. 1894 A, 112 (Ostariophysæ)
1895 A, 400 (Ostariophysæ).
- Stromer E 1912 A, 34
- Swinnerton, H W 1905 A, 378
- Thilo O 1908 A, 788
- Whitehouse R H 1910 B 598
- Woodward, A S 1901 A, ix, 296
1922 C, 99.
- Zittel and Koken 1911 A, 119

Suborder CHARACINIFORMES Regan.

- Regan C T. 1922 A, 203.
- Boulenger G A 1904 D, 575 (Characiniðæ).
- Gill, T 1893 A, 131 (Heterognathi).
1896 E, 205 ("heterognaths")
- Goodrich, E S 1909 A, 374 (Characinoidea).
- Gregory, W K 1907 D, 449 (Heterognathi)
- Jordan D S. 1905 A n, 161 (Heterognathi)
1923 A, 134 (Heterognathi)
- Jordan and Evermann 1896 A, 329 (Heterognathi)
- Regan C T 1911 F, 15 (Characiformes)
- Zittel and Schlosser 1923 A, 123 (Characinoidea)

Superfamily CHARACINOIDEÆ, new form.

- Frost G A 1925 A, 554 (Characiformes)
- Goodrich E S 1909 A, 374 (Characinoidea).

CHARACINIDÆ Richardson.

- Richardson, J 1856 A, 245.
- Abel, O 1922 F, 77.
- Allis, E. P 1909 A, 213.
- Ardt, T. 1907 D, 645.
1923 A, 505 ("characinen").
- Boulenger G A 1901 D, 131, 132
1904 D, 575.
1917 B, 330.
1918 A, 195.
1918 B 197 ("characiniðes").

- Bridge and Haddon 1893 A, 65.
 Cockerell, T. D. A. 1923 E, 418.
 Cope, E. D. 1871 T, 454.
 1872 C 332
 Dean, Gudgeon Henn 1923 A, 674.
 Gadow, H. 1913 A, 94.
 Gaupp, E. 1905 D 913 ("characmiden").
 Gill, T. 1872 C, 16
 1885 C, 132
 1896 E, 205 (Characidae, Characinae)
 Gregory, W. K. 1907 D 473 ("characins").
 Gunther, A. C. 1880 A, 606
 1881 A, 692
 Jordan D. S. 1885 A, 125, 132
 1923 A, 134
 Jordan and Evermann 1896 A, 331.
 Jordan and Gilbert 1882 A, 254.
 Kesteven, H. L. 1926 B, 204
 Kindred, J. E. 1919 A
 Klein E. F. 1879 A, 104
 1881 A 330.
 1884 A, 135 138 147, 153, 156, 199, 226,
 243 246 248
 1885 A 116, 130, 144, 164, 195, 199, 211

ISCHYRHIZA Leidy.

- Hay, O. P. 1902 A, 398
 Arlitt, T. 1923 A, 517 (Ichthyorhiza).
 Boulenger, G. A. 1918 A, 195
 1918 B, 199
 Eastman, C. R. 1901 B, 111
 1904 E 298 (Syn. of Onchosaurus)
 1904 H 93
 1917 A 297
 Fowler H. W. 1911 A 167.
 Jordan D. S. 1919 B, 272 (Syn. of Pachyrhizodus)
 1923 A 118
 Priem F. 1908 B 62.

Ischyrhiza mira Leidy.

- Hay O. P. 1902 A 398
 Berry E. W. 1916 A, 358, pl ix, figs. 6-8
 Boulenger G. A. 1918 B 199 (I. antiqua)
 Eastman C. R. 1901 B, 111.
 1904 E, 298 (I. antiqua a syn.).
 1904 H, 93

ERYTHRINOLEPIDÆ Cockerell.

- Cockerell T. D. A. 1919 A, 182

ERYTHRINOLEPIS Cockerell.

- Cockerell T. D. A. 1919 A, 182

Erythrinolepis chicoensis Cockerell.

- Cockerell T. D. A. 1919 A, 182, pl xxxvi, figs. 1-2
 Upper Cretaceous (Chico), California.

- Klein E. F. 1888 A 225, 260, 290.
 Kolliker, A. 1859 A, 665 (Characini).
 Loomis F. B. 1921 A, 194 (Characidae).
 Meek A. 1916 A, 168
 Norman, E. W. 1926 A
 Rauther M. 1913 A, 1100
 Regan, C. T. 1911 F, 15 (Characidae).
 1916 B, 546 (Characidae).
 1922 A, 203
 1924 A, 175
 Reissner E. 1859 B, 429 ("characinen")
 Sagemehl, M. 1884 A, 1-119 ("characmiden")
 Schelaputun G. 1906 A, 97 ("characmiden")
 Shepherd C. E. 1910 B, 296, pl ii, fig. 7.
 1916 A, 178
 Siebenock, F. 1901 A
 Sorensen, W. 1894 A, 111 (Characini).
 Stannius H. 1854 A, 5, 25, 99 (Characini)
 Starks, E. C. 1926 A, 88
 Stensio E. A. 1925 A, 36.
 Terra P. 1911 A, 212
 Woodward A. S. 1901 A, 297
 Wright R. R. 1885 A, 108
 Zittel and Schlosser 1923 A, 123

Type *I. mira* Leidy.

- Eastman C. R. 1917 A, 208 pl xi, fig. 2
 Fowler H. W. 1911 A, 167, fig. 103
 Gidley J. W. 1911 m. Vetch and Stephenson
 1911 A 208, 215
 1926 F, 192, pl lxx, fig. 10
 Hay, O. P. 1923 A, 363
 Hussakof L. 1908 A, 77
 Priem F. 1908 B, 62, fig. 25 (I. antiqua)
 Upper Cretaceous (Woodbury, etc.), New Jersey (Ripley), Mississippi, Georgia, South Carolina North Carolina (Fox Hills), New Mexico (Moenmouth?), Maryland

Ischyrhiza? radiata Clark.

- Hay, O. P. 1902 A, 398
 Clark and Miller 1912 A, 117, 118 (Xiphias?)
 Eastman, C. R. 1901 B, 112, pl xii, fig. 8 (Xiphias?)
 Woodward, A. S. 1901 A, 46, 614
 Eocene (Painunkev), Virginia: (Aquia); Maryland

- Jordan D. S. 1923 A, 119 (To Clupeoidæ).

Type *E. mowriensis* Cockerell.*Erythrinolepis mowriensis* Cockerell.

- Cockerell, T. D. A. 1919 A, 182, pl xxxvi, figs. 3-6
 Upper Cretaceous (Mowry); Wyoming.

Suborder CYPRINIFORMES Goodrich.

- Goodrich E. S. 1909 A, 371.
 Hay O. P. 1902 A, 394 (Plectospondyli).
 Chranilov, I. 1926 A, 51.
 Cope, E. D. 1871 T, 452 (Plectospondyli).
 1872 C, 332 (Plectospondyli).
 Gill, T. 1861 B, 6 (Eventognathi)

- Gill, T. 1885 C, 125 (Eventognathi).
 1905 G, 196 ("eventognaths").
 Jordan, D. S. 1885 A, 125 (Eventognathi).
 1907 B, 382 (Plectospondyli).
 1923 A, 139 (Eventognathi).
 Lonnberg, E. 1902 A (Cyprinoidæ).

Regan, C. T. 1911 F, 13, 14 (Cyprinoidæ)
1911 G, 555 ("cyprinoids").
1922 A, 203 (Cyprinoidæ).

Starks, E. C. 1904 C, 254 (Plectospondyli).
Zittel and Schlosser 1923 A, 123.

Superfamily CYPRINOIDÆ, a term given superfamily significance.

Boulenger, G. A. 1918 B, 199 ("cyprinids").
Eigenmann, C. H. 1890 B, 10 (Eventognathi).
Frost, G. A. 1925 A, 553 (Cyprinoidæ).
Gill, T. 1861 B, 6 (Eventognathi).
1905 F ("eventognaths")
Gregory, W. K. 1907 D, 450, 477 (Eventognathi).

Jordan, D. S. 1905 A, II, 162, 569 (Eventognathi).
1907 B, 381, 764 (Eventognathi).
Norman, E. W. 1926 A, 415 (Cyprinoidæ).
Regan, C. T. 1909 B, 77 (Cyprinoidæ).
1911 F, 26 (Cypriniformes).

CATOSTOMIDÆ Cope.

Cope, E. D. 1872 C, 332.
Hay, O. P. 1902 A, 394 (Catostominae).
Ardt, T. 1907 D, 284, 285 (Catostominae).
1912 A, 716, 762 (Catostominae).
1923 A, 506 ("catastominae")
Boulenger, G. A. 1904 D, 581 (Catostominae).
Chranilov, I. 1926 A, 49.
Cockerell, T. D. A. 1913 B, 139
Cockerell and Allison 1909 A, 157
Edwards, L. F. 1926 A, 257 (Catostomidae).
Gill, T. 1861 B, 8 (Catostomoidæ).
1875 B, 252 (Catostomidae).

Gill, T. 1885 C, 131
1905 G, 196 ("catostomids").
Goodrich, E. S. 1909 A, 375 (Catostominae).
Jordan, D. S. 1885 A, 131
1905 A, II, 171, 562
1907 B, 390
1923 A, 139
Meek, A. 1916 A, 173 (Catostominae).
Rauther, M. 1913 A, 1101 (Catostominae).
Regan, C. T. 1911 F, 27
1922 A, 205
Sagemehl, M. 1891 A ("catastomiden").

CATOSTOMUS Le Sueur. Type *Cyprinus catostomus* Forster.

Hay, O. P. 1902 A, 394.
Allis, E. P. 1909 A, 11
1919 C, 252
Ardt, T. 1907 D, 284, 285
Chranilov, I. 1926 A, 49, figs. 1-3
Cockerell, T. D. A. 1910 B, 62.
1911 F, 370.
1913 B, 139.
Cockerell and Allison 1909 A, 158, fig. 2
Duméril, A. 1856 A, 410 ("catostome")
Edwards, L. F. 1926 A, 257, figs. 1-6 (Catostomus).
Heilprin, A. 1887 A, 68
Hilgard, T. C. 1858 A, 89.
1860 A, 679
Hyrthl, C. J. 1862 A, 101.
Jordan, D. S. 1885 A, 132
Jordan and Evermann 1917 A, 96.
Jordan and Gilbert 1882 A, 124.
Regan, C. T. 1922 A, 206.

Sagemehl, M. 1884 A, 7, 102
1891 A, 543, pls. xv, xxvii.
Scharff, R. F. 1911 A, 89
Stannius, H. 1834 A (Catostomus)
Woodward, A. S. 1901 A, 299

Catostomus cristatus Cope.

Hay, O. P. 1902 A, 394
1927 D, 265, 268
Hussakof, L. 1908 A, 65, fig. 33.
Pleistocene (Idaho), Idaho

Catostomus reddingi Cope.

Cope, E. D. 1883 L, 160
Hussakof, L. 1908 A, 66, fig. 34.
Pleistocene (Idaho), Idaho.

Catostomus shoshonensis Cope.

Hay, O. P. 1902 A, 394
1927 D, 265, 268
Pleistocene (Idaho), Idaho

CHASMISTES Jordan and Gilbert. Type *C. horus* Jordan.

Jordan, D. S. 1878, Bull. Hayden's Geol. Surv., IV, 417.
Ardt, T. 1923 A, 506.
Cope, E. D. 1883 L, 148.
Jordan, D. S. 1907 A, 140.
1919 B, 396.
Jordan and Evermann 1896 A, 182.
Jordan and Gilbert 1882 A, 131.

Chasmistes batrachops (Cope).

Hay, O. P. 1902 A, 394 (Catostomus).
1927 D, 242 (Catostomus); 243 Chasmistes
Hussakof, L. 1908 A, 65, fig. 32 (Catostomus).

Starks, E. C. 1907, in Jordan, D. S. 1907 A, 143, 144, fig. 33
Pleistocene (Fossil Lake); Oregon

Chasmistes oregonus Starks.

Starks, E. C. 1907, in Jordan, D. S. 1907 A, 141, 144, fig. 32.
Hay, O. P. 1902 A, 394 (Catostomus labiatus, in part).
Cope, E. D. 1883 L, 150 (Catostomus labiatus, not of Ayres).
Hay, O. P. 1927 D, 243.
Pleistocene (Fossil Lake), Oregon

AMYZON Cope. Type *A. mentale* Cope.

Hay, O. P. 1902 A, 395.

Arlt, T. 1907 D, 285.

1923 A, 506.

Cockerell, T. D. A. 1906 A, 163.

1908 C, 164.

Eastman, C. R. 1917 A, 292.

Regan, C. T. 1922 A, 206.

Schlosser, M. 1917 A, 144.

Woodward, A. S. 1901 A, 300.

***Amyzon brevipinne* Cope.**

Hay, O. P. 1902 A, 395.

Eastman, C. R. 1917 A, 292, pl. xix, figs. 1, 2.

Lambe, L. M. 1904 C, 30, 39, 44.

1906 C, 151, pl. i, figs. 1, 2.

1906 D, 174.

1906 E, 137.

Woodward, A. S. 1901 A, 300.

Tertiary (*Amyzon* bed.), British Columbia***Amyzon commune* Cope.**

Hay, O. P. 1902 A, 395.

Cockerell, T. D. A. 1908 C, 164.

Lambe, L. M. 1906 C, 151, pl. i, fig. 3.

1906 E, 137.

Merrill, G. P. 1907 A, 6.

Woodward, A. S. 1901 A, 300.

Miocene (Florissant), Colorado.

***Amyzon fusiforme* Cope.**

Hay, O. P. 1902 A, 395.

Cockerell, T. D. A. 1908 C, 164.

Woodward, A. S. 1901 A, 300.

Miocene (Florissant); Colorado

***Amyzon mentale* Cope.**

Hay, O. P. 1902 A, 395.

Cockerell, T. D. A. 1908 C, 164.

Merrill, G. P. 1907 A, 6.

Woodward, A. S. 1901 A, 300.

Miocene (Florissant); Colorado.

***Amyzon pandatum* Cope.**

Hay, O. P. 1902 A, 395.

Cockerell, T. D. A. 1908 C, 164.

Woodward, A. S. 1901 A, 300.

Miocene (Florissant), Colorado

***Amyzon* sp. indet.**

Cockerell, T. D. A. 1914 A, 190.

Miocene (Florissant), Colorado

CYPRINIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 94, 113

Hay, O. P. 1902 A, 394.

Abel, O. 1912 F, 518 ('cypriniden').

1919 A, 49, fig. 23 (Cyprinus).

1922 F, 77.

Agassiz, L. 1836 A, 149.

1838 A, 73 ('karpfen').

1840 C, 110 pl. iv, fig. 7 (Cyprinus).

1844 D, 139 ('cycloides').

1845 C, 325 (Cyprini).

Alexandri, A. 1849 A, 375, pl. xxiii, figs. 1, 3 (Cyprinus).

Allis, E. P. 1897 A, 13.

1898 A, 436.

1898 B, 95.

1905 A, 401, 437.

1909 A, 213.

1913 A, 327.

1918 A, 242.

1922 B, 204.

Anonymous 1821 A, 273 (Cyprinus).

Arlt, T. 1907 D, 649.

1912 A, 716, 762.

1923 A, 506 ('cypriniden').

Baehr, W. B. 1906 A, 629 (Cyprinus).

Baudelot, E. 1873 A, 97, 206, pls. x, xi (Cyprinus).

Bellin, D. E. 1912 A, 60 ('cyprinoiden').

Bonaparte, C. L. 1833 B, 1200.

1838 B, 132.

Boulenger, G. A. 1904 A, 166.

1904 D, 581, 737.

1917 B, 330.

Bridge, T. W. 1878 A, 705 (Cyprinoiden).

1896 A, 547.

Bridge and Haddon 1893 A, 65-333.

Bronn, H. G. 1849 A, 780 (Cyprinoidei).

Cuvier, V. 1875 A, 564 (Cyprinoiden)

Chamov, I. 1925 A, 90.

1926 A, 49.

Cockerell, T. D. A. 1910 A, 475.

1910 F, 1.

1911 E, 215.

1911 F, 371.

1913 B, 128.

Cockerell and Allison 1909 A, 157.

Cockerell and Callaway 1909 A, 121.

Cockerell and Moore 1910 A, 252.

1910 B, 91 ('cyprinids').

Collinge, W. E. 1895 B, 286.

Cope, E. D. 1871 T, 454.

Cunningham, J. T. 1912 A, 247.

Cuvier, G. 1805 A ('carpes').

1815 A, 110 ('cyprinus').

Dean, Gudge, Henn 1923 A, 676.

Demoll, R. 1921 A, 442, pls. xv, xvi ('karpfen').

Derjugin, K. M. 1909 A (Cyprinoidea)

Donntzer, M. 1852 A, 62 ('cypriniden').

Duméril, A. 1856 A, 404 ('cyprinoides').

Ebner, V. 1896 A, 127 ('cyprinoiden').

Emmer, G. H. T. 1901 A ('cyprinoiden').

Fitzinger, L. J. 1873 A, 38 (Cyprini).

Friedmann, E. 1897 A, 567, figs. 10-16 (Cyprinus).

Frost, G. A. 1925 A, 556.

Fryd, C. 1901 A, 35.

Fulton, T. W. 1906 A, 77.

Gadow, H. 1913 A, 94.

Gatzmow, V. 1900 A, 86 ('cyprinoiden').

Gaupp, E. 1901 B, 939 ('cyprinoiden').

Geoffroy-St. Hilaire, E. F. 1807 B, 414 ('cyp-rins').

1824 A, 140 ('cyprins').

- Geoffroy-St Hilaire, E. F. 1824 B 145 ("cyprins").
 1824 E, 100 (Cyprinus).
 1824 G, 439 (Cyprinus).
 Giebel, C. G. 1855 A, 107 ("cyprinoides").
 Gill, T. 1861 B, 7 ("cyprinoides").
 1865 E, 69 ("cyprinoids").
 1875 B, 254 ("cyprinoids").
 1885 C, 126
 1905 C, 617 ("cyprinids").
 1905 G, 195 ("cyprinids").
 Goetsch, W. 1915 A, 459 (Cyprinus).
 1920 A, 10, 16 (Cyprinus).
 Goette, A. 1879 A, 127 ("cyprinoiden").
 1901 A, 533 ("cypriniden").
 Goodrich, E. S. 1909 A, 375 fig. 358
 Gregory, W. K. 1907 D, 450.
 Haller, B. 1906 A, 254, pl. xvi, fig. 11 ("cyprinoiden").
 Hamburger, R. 1904 A, 79, 84, pl. II (Cyprinus, Squahus).
 Hase, A. 1907 A ("cypriniden").
 Hasse, C. 1872 A, figs. (Cyprinus).
 1873 A, 583, figs. 1-6 ("cyprinoiden").
 Hasse and Schwarck 1870 A, 45 ("cyprinoiden").
 Heckel, J. 1836 A, 221 ("cyprinen").
 1850 A, 364 ("cypriniden").
 1850 B, 146 ("cypriniden").
 1851 A, 222 ("cypriniden").
 Heipman, A. 1887 A, 68, 69.
 Hilgard, T. C. 1857 A, 679 ("cyprinoids").
 Hoernes, R. 1886 A, 531 (Cyprinoiden).
 Hoppe, R. 1894 A, 5 pl. 1 (Leuciscus).
 Hora, S. L. 1922 A, 1, figs. 1, 2 (Labeo).
 Hubbs, C. L. 1919 B, 65.
 1926 A, 58 ("cyprinids").
 Huxley, T. H. 1859 D, 401, fig. 6 ("carp").
 1859 H, 38.
 1863 F, 427 ("cyprinoids").
 Hyrtl, C. J. 1862 A, 95 ("cyprinoiden").
 Ihering, H. 1891 C, 24 ("cypriniden").
 1909 A, 289 ("cypriniden").
 Imms, A. D. 1904 A, 23.
 Jordan, D. S. 1885 A, 126.
 1905 A, II, 163, 565.
 1907 B, 382.
 1923 A, 139.
 Jordan and Gilbert 1882 A, 144.
 Kesteven, H. L. 1922 A, 315.
 1926 B, 204.
 Kindred, J. E. 1919 A.
 Klaatsch, H. 1890 A, 158, 185 ("cyprinoiden").
 Klem, E. F. 1868 A ("cypriniden").
 1879 A, 70, 79, 109, 118, 123 (Cyprinoiden).
 1884 A, 135, 138, 147, 156, 164, 201, 246, 251.
 1885 A, 115, 130, 150, 164, 177, 199, 214, 247.
 1886 A, 226, 262, 293.
 Kner, R. 1861 A, 243 (Cyprinoiden).
 Kothlm, O. 1844 A ("cyprinoiden").
 Kolzoff, N. K. 1896 A, 19, figs. 8, 9.
 Lavocat, A. 1896 B, 194 ("carpes").
 Leunis and Ludwig 1883 A, 726.
 Mantell, G. A. 1844 A, 665 ("cyprinoids").
 McMurich, J. P. 1883 A, 629 ("cyprinoids").
 Meckel, J. F. 1825 A ("karpfen").
 Meek, A. 1916 A, 173.
 Mivart, St. G. 1871 B, 376 ("carp").
 Moodie, R. L. 1922 B, 320.
 Muller, J. 1841 B, clui ("cyprinen").
 Norman, E. W. 1926 A.
 Nusbaum, J. 1881 A, 552.
 1908 A, 513 (Cyprinus).
 1908 B, 506 ("cyprinoiden").
 Owen, R. 1866 A, 10, 43.
 Palacký, J. 1902 B, 149 ("cypriniden").
 Pevsner, V. 1926 A, 303, figs. 1-6 (Cariassius, Rutilus).
 Peyer, B. 1922 A, 496 (Cyprinus).
 Pychlau, W. 1908 A, 693 ("cyprinoiden").
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1911 F, 27.
 1922 A, 205.
 1924 A, 175.
 Rees, C. 1905 A, 222 ("cyprinoides").
 Reissner, E. 1859 B, 429 ("cyprinoiden").
 Ryder, J. 1886 A, 72 ("cyprinoids").
 Salabat, A. 1896 A, 122 ("cyprinides").
 Sachs, M. M. 1912 A, 725 ("cyprinoides").
 Sagemühl, M. 1883 A ("cypriniden").
 Schannusland, H. 1906 A, 474 ("cyprinoiden").
 Scheel, C. 1893 A, 16 ("cyprinoiden").
 Schelaputin, G. 1906 A, 97 (Cyprinoiden).
 Schlosser, M. 1917 A, 144 ("cypriniden").
 Schmialhausen, J. J. 1913 A, 12 ("cyprinen").
 Shepherd, C. E. 1910 A, 419.
 1910 B, 296, pl. I, fig. 16 (Cyprinus).
 1912 A, 201 (Cyprinus).
 1916 A, 178.
 Siebenrock, F. 1901 A, 108.
 Sorensen, W. 1894 A, 114 (Cyprinoiden).
 1895 A, 401.
 Solger, B. 1880 A, 382 (Cyprinus).
 Stammus, H. 1849 A, 539 (Cyprinus).
 Starks, E. C. 1916 A, 20.
 Stensio, E. A. 1925 A, 36.
 Stephan, P. 1898 A, 358 ("cyprinudés").
 1900 A, 296 ("cyprinudés").
 Storch, O. 1911 A, 201 ("goldfische").
 Stoss, H. 1921 A, 411, pl. xviii; text-figs. 1-12 ("cypriniden").
 Terra, P. 1911 A, 210.
 Thilo, O. 1908 A, 777, 788.
 Trouessart, E. L. 1906 A, 212.
 Uhlmann, E. 1921 A, 322 ("cypriniden").
 Vaillant, L. 1896 A, 275 ("cyprinoides").
 Wagner, R. 1843 A ("karpfen").
 Wallace, A. R. 1876 A, II, 451.
 Weber, E. H. 1821 A, 1061 (Cyprinus).
 Williamson, W. C. 1851 A, 650 pl. xxvii, fig. 9 ("carp").
 Woodward, A. S. 1901 A, 299.
 Zittel and Koken 1911 A, 122.
 Zittel and Schlosser 1923 A, 123.
 Zittel and Woodward 1902 A, 100.

MYLOPHARODON Ayres. Type *M. robustus* Ayres.

- Ayres, W. O. 1855, Proc. Calif. Acad. Nat. Sci., 33.
 Ardit, T. 1923 A, 507.

- Cockerell, T. D. A. 1913 B, 130.
 Gill, T. 1865 E, 70.
 Jordau and Evermann 1896 A, 219.

Newberry, J. S. 1870 D, 28.

Mylopharodon conocephalus Baird and Girard.

Baird and Girard 1854, Proc Acad. Nat. Sci. Phila., 134 (Gila)

Hay, O. P. 1927 D, 216.

Jordan, D. S. 1907 A, 131.

Jordan and Evermann 1896 A, pt. 1, 219.

Miller, L. H. 1912 A, 71 (This species?).

Sinclair, W. J. 1904 A, 18 (This species?).

Pleistocene (Potter Creek Cave), California

PTYCHOCEILUS Agassiz. Type *P. gracilis* Agassiz = *Gila grandis* Ayres.

Agassiz, L. 1855, Amer. Jour. Sci. (2), xix, p. 227.

Cockerell, T. D. A. 1913 B, 131

Jordan, D. S. 1885 A, 129, fig. 86

Jordan and Evermann 1896 A, 224 (Type *P. gracilis*)

Jordan and Gilbert 1882 A, 225 (Type *P. oregonensis*)

Ptychocheilus grandis (Ayres).

Ayres, W. O. 1854, Proc Acad. Nat. Sci. Calif., 18 (Gila)

Hay, O. P. 1927 D, 216

Jordan, D. S. 1905 A, i, 164, fig. 125; ii, 169, fig. 13 (*P. grandis*)

Jordan and Evermann 1896 A, 224 (Syn. of *P. oregonensis*).

Jordan and Gilbert 1882 A, 226 (Type *P. oregonensis*).

Miller, L. H. 1912 A, 71 (This species?).

Sinclair, W. J. 1904 A, 18.

This species may be identical with *P. oregonensis*.

Recent, Rivers about San Francisco: Pleistocene - California

Ptychocheilus tularis Jordan.

Jordan, D. S. 1927 B, 95.

Pleistocene?; California

DIASTICHUS Cope. Type *D. macrodon* Cope.

Hay, O. P. 1902 A, 395.

Diastichus macrodon Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho

Diastichus parvidens Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho.

Diastichus strangulatus Cope.

Hay, O. P. 1902 A, 395.

1927 D, 265, 268

Hussakof, L. 1908 A, 70; pl. v, figs. 5, 6.

Woodward, A. S. 1901 A, 322.

Pleistocene (Idaho); Idaho

APHELICHTHYS Cope. Type *A. lindahlui* Cope.

Hay, O. P. 1902 A, 395

Apelichthys lindahlui Cope.

Hay, O. P. 1902 A, 395

Pliocene or Pleistocene; Illinois.

SIPHATELES Cope. Type *S. vittatus* Cope.

Cope, E. D. 1883 L, 146

Hay, O. P. 1902 A, 395 (Rutilus).

Cockerell, T. D. A. 1909 C, 217 (Myloleucus). 1913 B, 130

Cockerell and Allison 1909 A, 161 (Rutilus).

Jordan, D. S. 1910 B, 185 (Rutilus).

1910 C, 634 (Myloleucus).

1919 B, 361.

Jordan and Evermann 1917 A, 112 (Rutilus).

Jordan and Gilbert 1882 A, 244 287 (Myloleucus).

Siphateles altarcus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus)

Cope, E. D. 1878 II, 125 (Anchibopsis).

Hay, O. P. 1927 D, 242 (Leucus); 243 (Siphateles).

Pleistocene (Fossil Lake); Oregon.

Siphateles gibbarcus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus).

Cope, E. D. 1878 C, 22 (Anchibopsis brevicaucis).

1878 II, 125 (Anchibopsis).

Hay, O. P. 1927 D, 242 (Myloleucus); 243 (Siphateles)

Pleistocene (Fossil Lake), Oregon.

Siphateles latus (Cope).

Hay, O. P. 1902 A, 395 (Rutilus).

1927 D, 268 (S. latus); 265 (Anchibopsis fasciolatus. This species?)

Russell, I. C. 1902 A, 56 ("Anchibopsis fasciolatus Cope" Nomen nudum)

Woodward, A. S. 1901 A, 322 (Leucus)

Pleistocene (Idaho); Idaho.

NOTROPIS Raf. Type *N. atherinoides* Raf.

Hay, O. P. 1902 A, 396.

Cockerell, T. D. A. 1909 B, 189 (Notropis). 1913 B, 130.

Cockerell and Allison 1909 A, 158, fig. 3.

Cockerell and Callaway 1909 B, 189, 195.

Gill, T. 1907 C, pl. L, fig. 11.

- Hubbs, C. L. 1922 A, 360, figs. 1, 4, 5, 7.
1923 A, 268.
Jordan, D. S. 1885 A, 127.
1905 A, II, 165.
Jordan and Evermann 1896 A, 254.

RICHARDSONIUS Girard. Type *Abramus balteatus* Baird and Girard.

Unless otherwise indicated the authors as quoted use the name *Leuciscus*.

- Girard, C. 1856, Proc. Acad. Nat. Sci. Phila., VII, 201 (Richardsonius).
Hay, O. P. 1902 A, 396.
Agassiz, L. 1836 A, 150.
Ailtdt, T. 1907 D, 285.
Bronn, H. G. 1848 A, 639.
Cockerell, T. D. A. 1909 C, 216 (Richardsonius).
1911 F, 371.
1913 B, 131 (Richardsonius).
Cockerell and Allison 1909 A, 157, 159.
Emer, G. H. T. 1901 A, 259.
Fryd, C. 1901 A, 26.
Fuchs, H. 1912 D, 213.
Fulton, T. W. 1906 A, 77, pl. IIIA.
Hase, A. 1907 A, 633.
Hubbs, C. L. 1926 A, 67.
Jordan, D. S. 1905 A, II, 169, 579.
1907 B, 388.
1910 B, 185, 634 (Richardsonius).
1919 B, 270 (Richardsonius).
Jordan and Evermann 1896 A, 238 (Subg. of *Leuciscus*).
1917 A, 37, 99.
Jordan and Gilbert 1882 A, 251.
Lucas, F. A. 1900 G, 223.
Owen, R. 1845 B, 147, pl. LVII, fig. 4.
Palacký, J. 1902 B, 149.
Ridewood W. G. 1904 A, 62.
Woodward, A. S. 1901 A, 305.

Richardsonius arciferus (Cope).

- Hay, O. P. 1902 A, 396 (Leuciscus).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (Squalus).
Pleistocene (Idaho); Idaho.

Richardsonius bairdii (Cope).

- Hay, O. P. 1902 A, 396 (Leuciscus).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (Squalus).
Pleistocene (Idaho); Idaho.

Notropis angustarcus (Cope).

- Hay, O. P. 1902 A, 396.
1927 D, 242 (Chola).
Hussakof, L. 1908 A, 84, pl. v, figs. 3, 4.
Pleistocene (Lower), Oregon.

Richardsonius condonians (Cope).

- Hay, O. P. 1902 A, 395 (Rutilus).
1927 D, 265, 268.
Hussakof, L. 1908 A, 96, pl. v, figs. 7, 8 (Rutilus).
Woodward, A. S. 1901 A, 322 (Leucus).
Pleistocene (Idaho); Idaho.

Richardsonius laminatus (Cope).

- Hay, O. P. 1902 A, 396 (Leuciscus).
1927 D, 268.
Woodward, A. S. 1901 A, 323 (Squalus).
Pleistocene (Idaho); Idaho.

Richardsonius posticus (Cope).

- Hay, O. P. 1902 A, 396 (Leuciscus).
1927 D, 265, 268.
Woodward, A. S. 1901 A, 323 (Squalus).
Pleistocene (Idaho); Idaho.

Richardsonius reddingi (Cope).

- Hay, O. P. 1902 A, 396 (Leuciscus).
1927 D, 265, 268.
Hussakof, L. 1908 A, 80, pl. v, figs. 1, 2 (Leuciscus).
Woodward, A. S. 1901 A, 323 (Squalus).
Pleistocene (Idaho); Idaho.

Richardsonius rosei (Hussakof).

- Hussakof, L. 1916 D, 18, fig. 1 (Leuciscus).
Miocene (Tranquille), British Columbia.

Richardsonius turneri (Lucas).

- Hay, O. P. 1902 A, 396 (Leuciscus).
Andreac, A. 1904 B, 461 (Leuciscus).
Blake W. P. 1867 B, 306 ("fish." This species?).
Cockerell, T. D. A. 1914 A, 190.
Eastman, C. R. 1917 A, 292, pl. XVIII, fig. 4 (Leuciscus).
Jordan D. S. 1905 A, II, 175 (Leuciscus).
Lucas, F. A. 1900 G, 223 pl. XXI (Leuciscus).
Merrill, G. P. 1907 A, 13 (Leuciscus).
Sauvage, H. E. 1901 G, 81 (Leuciscus).
Woodward, A. S. 1901 A, 311 (Leuciscus).
Miocene (Esmeralda); Nevada.

MYLOCYPRINUS Leidy. Type *M. robustus* Leidy.

- Hay, O. P. 1902 A, 396.
Woodward, A. S. 1901 A, 323 (=Mylopharyngodon).

Mylocyprinus inflexus Cope.

- Hay, O. P. 1902 A, 396.
1927 D, 265, 268.
Hussakof, L. 1908 A, 82, pl. v, figs. 11, 12.
Woodward, A. S. 1901 A, 322.
Pleistocene (Idaho); Idaho.

Mylocyprinus robustus Leidy.

- Hay, O. P. 1902 A, 396.
1927 D, 104.
1927 D, 268 (Siphateles r. robustus; S. r. longidens; S. r. kingi).
Hussakof, L. 1908 A, 82, pl. v, figs. 9, 10.
Merrill, G. P. 1907 A, 13 (M. robustus, M. kingi).
Woodward, A. S. 1901 A, 322.
Pleistocene (Idaho); Idaho.

ALISODON Hay. Type *A. mirus*.

Hay O. P. 1920 B, 132.

Alisodon mirus Hay.

Hay, O. P. 1920 B, 132; pl. ix, figs 8, 9.

1924 D, 247.

Pleistocene; Texas.

COBITIDÆ Swainson.

Swainson, W. 1838 A, 1, 231.

Allis, E. P. 1909 A, 213 (Cobitis).

Arlt, T. 1923 A, 507 ("cobitinen").

Bloch, L. 1916 A, 136 ("cobitiden").

Boulenger, G. A. 1904 D, 582 (Cobitidnæ).

Chranilov, I. 1925 A, 90, fig. 18.

1926 A, 49.

Cockerell, T. D. A. 1913 B, 140.

Cope, E. D. 1871 T, 454.

Dean, Gudge, Henn 1923 A, 364, 381, 612.

Frost, G. A. 1925 A, 559.

Geoffrey-St. Hilaire, E. F. 1824 G, 439 (Cobitis).

Gill, T. 1861 B, 7 (Cobitoidea).

1885 C, 125.

1905 G, 196 ('cobitids').

Goodrich, E. S. 1909 A, 376 (Cobitidnæ).

Gunther, A. C. 1868 A, 344 (Cobitidina).

Jordan, D. S. 1885 A, 125.

1923 A, 144.

Klaatsch, H. 1890 A, 156, 169, pl. viii (Cobitis).

Klein, E. F. 1881 A, 325 (Cobitis).

1885 A, 177.

1886 A, 262, 263.

Meek, A. 1916 A, 176 (Cobitidnæ).

Owen, R. 1848 B, 92, 98, pl. 1, fig. 7 (Cobitis).

Rauther, M. 1913 A, 1101 (Cobitidnæ).

Regan, C. T. 1911 F, 30.

1922 A, 205.

Sagemehl, M. 1891 A ("cobitiden").

Schelaputin, G. 1906 A, 97.

Sorensen W. 1894 A, 111 (Cobitini).

COBITIS Linnæus. Type *Cobitis taenia* Linn.

Linnæus C. 1858 A, 303

Allis, E. P. 1909 A, 213.

Arlt, T. 1923 A, 507.

Bloch, L. 1916 A, 136, pls. v, vi.

Chranilov, I. 1925 A, 90, figs 3, 5, 6, 15, 16

Dean, Gudge, Henn 1923 A, 675.

Gunther, A. C. 1868 A, 362.

Hasse, C. 1873 A, 535, figs 7, 8.

Jordan, D. S. 1885 A, 126, fig. 83.

Jordan and Evermann 1917 A, 14.

Owen, R. 1848 B, 92, 98, pl. 1.

Rersner, E. 1859 B, 430

Sagemehl, M. 1891 A.

Stannus, H. 1854 A, 64.

Woodward, A. S. 1901 A, 320.

Zittel, K. A. 1890 A, 284.

Cobitis sp. indet.

Cope, E. D. 1885 L, 161 (This genus?). Pleistocene (Idaho); Idaho

Hay, O. P. 1927 D, 265, 268 Pleistocene (Idaho); Idaho

Suborder SILURIFORMES, new name.

Unless otherwise indicated, the authors, as cited, use the name Nematognathi.

Hay, O. P. 1902 A, 381

Agassiz, L. 1844 D, 139 ("cyclodes").

1844 E, 332 ("cyclodes").

1868 A, 354 ("siluroides").

Bridge, T. W. 1878 A, 705 (Siluroidei).

Cope, E. D. 1871 T, 452, 453.

1891 N, 22

Dean, Gudge, Henn 1923 A, 637.

Eigenmann, C. H. 1890 B, 10

Fitzinger, L. J. 1873 A, 44 (Siluri).

Gill, T. 1885 C, 110.

Goetsch, W. 1920 A, 501 ("siluroiden").

Gregory, W. K. 1907 D, 450, 475.

Huxley, T. H. 1858 D, 520 (Siluroidei).

Jordan, D. S. 1885 A, 110 (Nematognathi).

1903 A, 136

1905 A, ii, 177, 582.

1907 B, 396, 764.

1923 A, 145

Jordan and Gilbert 1882 A, 95.

Lünzberg, E. 1902 A (Siluroidei).

Regan, C. T. 1909 B, 77 (Siluroidei).

1911 F, 14 (Siluroidea).

1911 G, 553 ("siluroids").

1922 A, 203 (Siluroidea)

Starks, E. C. 1904 C, 254 (Nematognathi).

1926 A, 88.

Woodward, A. S. 1901 A, ix, 296 (Ostariophysi, in part).

Wright, R. R. 1885 A, 107.

Zittel and Schlosser 1923 A, 124 (Siluroidei).

Superfamily SILUROIDÆ, Sørensen.

Sorensen, W. 1894 A, 109.

Bassoli, G. G. 1906 A, 37, pl. 1 (otoliths).

Chranilov, I. 1926 A, 49 (Siluroidei).

Gill, T. 1873 F, 11 (Siluroidea).

Norman, E. W. 1926 A, 414 (Siluroidea).

Peyer, B. 1922 A, 536 (Siluroidea).

Reissner, E. 1859 B, 421 ("siluroiden").

Sorensen, W. 1895 A, 205, 518.

1897 A, 172

Steinmann, G. 1927 A, 80 ("siluroiden").

SILURIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 95, 114.
 Hay, O. P. 1902 A, 382
 Abel, O. 1912 F, 565.
 1922 F.
 Adloff, P. 1920 A, 175 ("welse").
 Agassiz, L. 1835 B, 331.
 1836 A, 150
 1844 D, 142 ("saluroides")
 1845 C, 325 (Silur).
 1858 A, 9 ("catfish").
 Archel, O. 1919 A, 81 ("welse")
 Alms, E. P. 1905 A, 420.
 1909 A, 214
 1918 A, 242
 1922 B, 244.
 Aildt, T. 1907 D, 681.
 1912 A, 679.
 1923 A, 510 ("siluriden")
 Baraldi, G. 1877 A, 44 (Silur).
 Belling, D. E. 1912 A, 60 ("siluroiden").
 Bliss, R. 1875 A, 386 ("siluroids").
 Bonaparte, C. L. 1833 B, 1200.
 1838 B, 131
 Boulenger, G. A. 1901 D, 131, 237.
 1902 B, 301
 1904 A, 166.
 1904 D, 586, 756
 1917 B, 329
 1918 B, 199 ("silurides").
 Brauer, A. 1914 A, 284
 Bridge, T. W. 1878 A, 705 ("siluroids")
 1896 A, 550
 Bridge and Haddon. 1893 A, 65-333
 Carus, V. 1875 A, 556 (Siluroiden).
 Collinge, W. E. 1895 B, 275
 Cope, E. D. 1871 T, 454
 Cunningham, J. T. 1912 A, 247, 258, 265
 Cuvier, G. 1805 A ("silures").
 1815 A, 113 ("silures")
 Davis, J. W. 1890 C, 67 ("siluroids").
 Dean, Gudger, Henn. 1923 A, 701
 Duméril, A. 1856 A, 471 ("siluroides")
 Eastman, C. R. 1912 B, 372
 1917 A, 293
 Egerton, P. G. 1852 C, 6 L. 1 ("siluroids")
 Eigenmann, C. H. 1890 B, 12
 Geoffroy-St. Hilaire, E. F. 1807 B, 426 ("silures")
 1824 A, 132 ("silures").
 1824 G, 439 (Silurus)
 Gill, T. 1885 C, 115
 1905 C, 617 ("silurids")
 Goetsch, W. 1915 A, 461 ("siluriden")
 Goodrich, E. S. 1904 A, 474 ("siluroids")
 1909 A, 379.
 Gunther, A. C. 1887 A, 67.
 Hamburger, R. 1904 A, 75 ("siluroiden").
 Heckel, J. 1850 B, 146 ("siluroiden").
 Heilprin, A. 1887 A, 68, 80, 89.
 Hoernes, R. 1888 A, 531 (Siluroidei).
 Hofer, B. 1890 A, 105 ("saluroiden").
 Hoffmann, K. 1923 A, 113, fig. 1 (Silurus)
 Huxley, T. H. 1859 H, 37 (Siluroiden).
 1863 F, 427 ("saluroids").
 Hyrtl, C. J. 1862 A, 95 ("siluroiden").
 Ihering, H. 1891 C, 26 ("siluriden")
 Jaekel, O. 1904 A, 30 ("siluriden").
 Jaquet, M. 1898 A, 101, 213, pls. I-XIII, XVI-XXII (Silurus).
 1899 A, 177, pls. XXXIV-XI
 Jordan, D. S. 1885 A, 112.
 1905 A, II, 178, 592
 1907 B, 397.
 1923 A, 147 (Siluridæ, Ameiuridæ)
 Jordan and Gilbert. 1882 A, 96
 Kindred, J. E. 1919 A
 1924 A, 423 ("siluroids")
 Klem, E. F. 1879 A, 123.
 1881 A, 330.
 1884 A, 133, 135, 137, 138, 146, 156, 160, 201, 202, 244, 246, 248
 1885 A, 108, 121, 130, 142, 164, 192, 210
 1886 A, 227, 264, 289
 Kner, R. 1861 A, 308 (Siluroidei)
 Kostlm., O. 1844 A ("siluroiden")
 Koschkaroff, D. N. 1906 A, 211
 Leunis and Ludwig. 1883 A, 720
 Lezche, M. 1900 A, 179
 1901 B, 165 ("siluridés")
 Mavr, A. F. 1862 A, 108 (Silurus)
 McMurich, J. P. 1883 A, 629 ("siluroids")
 Meckel, J. F. 1825 A ("siluren").
 Meek, A. 1916 A, 169
 Müller, J. 1845 A, 96 ("siluroiden")
 Neumayer, L. 1913 A, 251 ("siluriden")
 Owen, R. 1845 B, 86 ("saluroids")
 1848 B, 151, pl. 1 (Silurus)
 1866 A, 193, 248
 Palacký, J. 1902 B, 141 ("siluriden").
 Parker and Bettanc. 1877 A, 84 ("siluroids")
 Peter, B. 1919 A, 63 ("welse")
 1920 B, 107 ("welse")
 1922 A ("siluriden")
 Püschel, F. 1906 B, 277 figs. 46-48
 1908 B, 99 ("siluridés")
 Rautner, M. 1913 A, 1101
 Reed, H. D. 1924 A, 431 ("siluroids")
 Regan, C. T. 1911 G, 560 (Siluridæ); 562 (Amiuridæ)
 1922 A, 203 (Siluridæ, Amiuridæ)
 1924 A, 175 ("siluroids")
 Rees, C. 1905 A, 220 ("siluroides")
 Reynolds, S. H. 1897 A, 105, 554 ("siluroids")
 Richardson, J. 1836 A, 132 (Siluroidei)
 Ridewood, W. G. 1904 B, 213 ("siluroids").
 Sagemehl, M. 1883 A ("siluriden").
 Scharff, R. F. 1911 A, 89 ("cat-fishes")
 Schaunusland, H. 1906 A, 474 ("siluroiden")
 Schelaputin, G. 1906 A, 85 (Clarias)
 Schlosser, M. 1917 A, 142, 144 ("saluriden").
 Shepherd, C. E. 1913 A, 140
 1916 A, 178
 Siebenrock, F. 1901 A, 108
 Sorensen, W. 1895 A, 399 (Siluroidæ)
 Starks, E. C. 1905 A, 755 (Silurus)
 Stensio, E. A. 1925 A, 36 (Siluroidæ)
 Storms, R. 1891 A, 118 ("saluroides").
 Stromer, E. 1925 B, 364
 Terra, P. 1911 A, 212
 Thilo, O. 1879 A, 12, pl. 1 (Pimelodus)
 1898 B, 89 ("siluroiden").
 1908 A, 777, 788.

Tomes, C S. 1878 A 41 ("siluroids").
 Uhlmann, E. 1921 A, 302 333
 Vaillant, L. 1896 A 275 ("siluroides").
 Wagner, R. 1843 A (Silurus).
 Wallace, A R. 1876 A ii, 441.
 Weber, E H. 1821 A, 1061 (Silurus).
 Whitehouse, R H. 1910 B, 600.

Wiedersheim, R. 1880 C, 128 ("siluroiden").
 Woodward, A S. 1901 A, x, 324.
 Wright, R R. 1885 A, 107.
 Zittel and Koken. 1911 A, 123.
 Zittel and Schlosser. 1923 A, 124.
 Zittel and Woodward. 1902 A, 101.

RHINEASTES Cope. Type *R. peltatus* Cope.

Hav, O P. 1902 A, 382
 Arldt, T. 1923 A, 512 (Rhineaster).
 Cockerell, T D A. 1908 C, 163.
 Dall and Harris. 1892 A, 289.
 Eastman, C R. 1917 A, 294.
 Jordan, D S. 1923 A, 146 (To Aridae)
 Leriche, M. 1901 B, 170.
 Matthew, W. D. 1915 A, 298
 Regan, C. T. 1922 A, 206.
 Seeley, H G. 1886 A, 412
 Woodward, A S. 1901 A, 329.
 Zittel and Schlosser. 1923 A, 124 (Rhineastes, Astephus).

Rhineastes arcuatus Cope.

Hav, O P. 1902 A, 382
 Cockerell, T D A. 1908 C, 163.
 Merrill, G P. 1907 A, 16 (*Pmelodus antiquus*);
 17 (*R. arcuatus*)
 Woodward, A S. 1901 A, 329
 Middle Eocene (Bridger), Wyoming

Rhineastes calvus Cope.

Hav, O P. 1902 A, 382
 Cockerell, T D A. 1908 C, 163
 Cope, E D. 1874 B, 441
 Merrill, G P. 1907 A, 17
 Regan, C T. 1922 A, 206
 Woodward, A S. 1901 A, 329.
 Middle Eocene (Bridger), Wyoming.

Rhineastes pectinatus Cope.

Hav, O P. 1902 A, 382
 Cockerell, T D A. 1906 A, 163.
 1908 C, 163
 Merrill, G P. 1907 A, 17
 Regan, C T. 1922 A, 206

AMEIURUS Rafinesque. Type *Pmelodus cupreus* Raf. = *A. natalis* Le Sueur.

Unless otherwise indicated, the authors, as quoted, use the name *Amiurus*.

Hav, O P. 1902 A, 382 (*Ameiurus*).
 Allis, E P. 1897 A, 15.
 1898 A, 428
 1905 A, 402 420 (*Ameiurus*).
 1909 A, 213 (*Ameiurus*).
 1915 A, 556 (*Ameiurus*).
 1918 A, 242 (*Ameiurus*).
 1919 C, 254 (*Ameiurus*).
 1922 A, 153.
 1922 B, 197.
 1923 A, 43
 Arldt, T. 1907 D, 96.
 1923 A, 512
 Brous, H. 1906 A, 184.
 Bridge, T W. 1896 A, 553.
 1904 A, 730.
 Bridge and Haddon. 1893 A, 81, 112, 275, 289

Woodward, A S. 1901 A, 329
 Miocene (Florissant), Colorado.

Rhineastes peltatus Cope.

Hav, O P. 1902 A, 382.
 Cockerell, T D A. 1908 C, 163.
 Jordan, D S. 1905 A, ii, 186.
 1907 B, 405
 Merrill, G P. 1907 A, 17.
 Woodward, A S. 1901 A, 329
 Middle Eocene (Bridger); Wyoming

Rhineastes radulus Cope.

Hav, O P. 1902 A, 382.
 Cockerell, T D A. 1908 C, 163.
 Merrill, G P. 1907 A, 18.
 Woodward, A S. 1901 A, 330 (Rhineastes?)
 Middle Eocene (Bridger), Wyoming.

Rhineastes rhæas Cope.

Hav, O P. 1902 A, 382
 Lambe, L M. 1904 C, 27, 38, 44
 1908 A, 9, 14, pl. 1, figs 10-16.
 Woodward, A S. 1901 A, 329 (Rhineastes?)
 Oligocene; Assiniboia

Rhineastes smithii Cope.

Hav, O P. 1902 A, 382
 Cockerell, T D A. 1908 C, 163.
 Merrill, G P. 1907 A, 18.
 Woodward, A S. 1901 A, 330
 Middle Eocene (Bridger); Wyoming

Rhineastes sp. indet.

Bowen, C F. 1915 A, 118. Upper Cretaceous
 (Hell Creek); Montana
 Brown, B. 1907 A, 842. Upper Cretaceous (Hell
 Creek); Montana

Collinge, W E. 1895 B, 278, pl. xvii, figs 2, 3.
 Dall and Harris. 1892 A, 289
 Dean, Gudge, Henn. 1923 A, 668.
 Duméril, A. 1856 A, 486 ("pmélode").
 Eastman, C R. 1917 A, 293 (*Ameiurus*).
 Gill, T. 1885 C, 117
 Goodrich, E S. 1909 A, 379
 Gunther, A C. 1887 A, 68
 Hague, F. 1924 A, 275 (*Amiurus*).
 Heilprin, A. 1887 A, 68.
 Hilgard, T C. 1858 A, 91 (*Pmelodus*).
 Jordan, D S. 1885 A, 116 (*Amiurus*).
 1905 A, ii, 180, 556 (*Ameiurus*).
 1907 B, 399 (*Ameiurus*)
 Jordan and Evermann. 1917 A, 112 (*Ameiurus*)
 Jordan and Gilbert. 1882 A, 102.
 Kindred, J. E. 1919 A, 1-104, pls. i-viii.
 Kinsley, J. S. 1925 A, 91, 94, 95, 111, figs. 96,
 99-101, 116, 251. -

- Kolzoff, N. K. 1896 A, 519
 Leriche, M. 1901 B, 170, 171
 Meek, A. 1916 A, 170, 171.
 Moodie, R. L. 1915 J, 326.
 1922 B, 322, fig. 2.
 Norman, E. W. 1926 A, 402, fig. 50.
 Peyer, B. 1922 A, 495, fig. 30.
 Reed, H. D. 1924 A, 431, fig. 1.
 Regan, C. T. 1922 A, 207.
 Reis, C. 1905 A, 224, pl. vi.
 Ryder, J. 1886 A, 73, 80.
 Scharff, R. F. 1911 A, 89 (Amiurus).
 Schmalhausen, J. J. 1912 A, 549.
 Starks, E. C. 1916 A, 21.
 Wallace, A. R. 1876 A, ii, 442.
 Woodward, A. S. 1901 A, 328.
 Wright, R. R. 1885 A, 107, 110.

Ameiurus cancellatus Cope.

- Hay, O. P. 1902 A, 383.
 Lambe, L. M. 1904 C, 27, 38, 44 (Amiurus).
 1908 A, 9, 15 (Amiurus)
 Woodward, A. S. 1901 A, 328 (Amiurus)
 Oligocene (White River): Assiniboia.

Ameiurus? decorus Hay.

- Hay, O. P. 1924 A, 1, pl. 1, fig. 1.
 Upper Miocene (Fleming), Texas.

Ameiurus maconnellii Cope.

- Hay, O. P. 1902 A, 383.
 Lambe, L. M. 1904 C, 27, 44 (Amiurus).
 1908 A, 9, 16 (Amiurus).
 Oligocene (White River): Assiniboia.

Ameiurus nebulosus (Le Sueur).

- Le Sueur, C. A. 1819, Mem. Mus., v, 149 (Pimelodus).
 Hay, O. P. 1923 A, 311.
 Jordan and Evermann 1896 A, 140.
 Leidy, J. 1889 H, 19 (Amiurus atrarius).
 Recent; Eastern United States. Pleistocene;
 Pennsylvania

Ameiurus primævus Eastman.

- Eastman, C. R. 1917 A, 293. Origin uncertain;
 probably from Eocene (Green River); Wyoming

Ameiurus sp. indet.

- Cope, E. D. 1883 L, 161. Pleistocene (Idaho); Idaho
 Hay, O. P. 1927 D, 265, 268
 Matthew, W. D. 1918 A, 188. Pliocene (Snake Creek), Nebraska.
 1924 C, 68 (This genus?). Upper and Middle Miocene (Lower Snake Creek and Sheep Creek), Nebraska.

Order ANGUILLOMORPHI, new name.

Unless otherwise indicated, the writers, as cited, employ for this order the name *Apodes*.

- Ardit, T. 1923 A, 514 ("apoden").
 Bonaparte, C. L. 1831 A, 96
 Boulenger, G. A. 1904 A, 162, 167
 1904 D, 599.
 Cockerell, T. D. A. 1913 B, 126 (Enchelycephali)
 Cope, E. D. 1872 C, 334 (Enchelycephali).
 Cunningham, J. T. 1912 A, 167 (Apoda)
 Cuvier, G. 1814 A, 76 ("anguilles").
 Dean, Gudge, Henn 1923 A, 669
 Dietz, P. A. 1917 A, 84
 Gill, T. 1872 C, 19
 1885 C, 100.
 1909 B, 836
 1909 C, 789.
 1910 C, 789
 Goodrich, E. S. 1909 A, 397, 403 (Anguilliformes).
 Gregory, W. K. 1907 D, 450, 478.
 Hasse and Schwarck 1870 A, 30 ("aale").
 Jordan, D. S. 1885 A, 100.

- Jordan, D. S. 1905 A, i, 611; ii, 139
 1907 B
 1923 A, 129
 Jordan and Evermann 1896 A, 344.
 Kesteven, H. L. 1926 A, 133.
 Kner, R. 1861 A, 233.
 Linnaeus, C. 1758 A, 242, 244
 Meek, A. 1916 A, 148
 Moodie, R. L. 1909 D, 243 (Apoda).
 Owen, R. 1866 A, 40
 Popta, Canna M.-L. 1904 A, 367 (Muraenidæ)
 Rauther, M. 1913 A, 1101.
 Regan, C. T. 1909 B, 78 (Anguiloidei); 83 (Apodes)
 1912 B, 839, 841, 843.
 1912 D, 377
 Stannus, H. 1854 A
 Woodward, A. S. 1898 A, 119.
 1901 A, 336.
 Zittel and Koken 1911 A, 119
 Zittel and Schlosser 1923 A, 133 (Anguilliformes)

Suborder ARCHENCHELI Jordan.

- Jordan, D. S. 1905 A, ii, 141.
 Goodrich, E. S. 1909 A, 404.
 Gregory, W. K. 1907 D, 481
 Jordan, D. S. 1905 A, ii, 141.

- Jordan, D. S. 1907 B, 364
 1923 A, 139
 Norman, E. W. 1926 A, 369-464, fig. 1 (Anguilla)

ANGUILLAVIDÆ Hay.

- Hay, O. P. 1903 I, 436.
 Gregory, W. K. 1907 D, 480.
 Jordan, D. S. 1923 A, 130.

- Regan, C. T. 1909 B, 83.
 1912 D, 379, 380 (Urenchelidæ).

ANGUILLAVUS Hay. Type *A. quadripinis* Hay.

Hay, O P 1903 I, 437.
 Arldt, T. 1923 A, 514.
 Regan, C T. 1912 D, 380.

Anguillavus hackberryensis Martin.

Martin, H. T. 1822 A, 95.
 Cretaceous (Niobrara); Kansas.
 A fish of doubtful relationship and not well illustrated.

Suborder COLOCEPHALI Cope.

Cope, E D 1871 T, 452, 456.
 1872 C 328, 334
 1891 N, 23.
 Gill, T 1872 C, 20
 1885 C, 101
 Goodrich, E S 1909 A, 407.
 Gregory, W K. 1907 D, 481.

Jordan, D. S. 1885 A, 101.
 1905 A, II, 152.
 1907 B, 371.
 1921 A, 352.
 1923 A, 133, 157.
 Jordan and Evermann 1896 A, 346, 388.
 Jordan and Gilbert 1882 A, 354.

MURÆNIDÆ Bonaparte.

Bonaparte, C L. 1831 A, 96, 118.
 Allis E. P 1907 A, 572
 1909 A, 214
 Arldt, T 1907 D, 666
 Boulenger, G A. 1904 A, 161
 1904 D, 604.
 Cope, E D 1871 T, 456.
 1872 C, 335.
 1891 N, 23
 Deau Gudgett Henn 1923 A, 690
 Facciola, L 1901 A, 41 ("murenoidi").
 Gill T 1872 C, 20
 1885 C, 107.
 1890 B, 157.
 1890 C, 185.
 Goodrich, E S 1909 A, 408.
 Gregory, W K. 1907 D, 481.
 Gunther, A C 1870 A, 19
 1880 A, 669
 Hase and Schwarck 1870 A, 46 (Muræna).
 Huxley, T H 1859 D (Muræna).
 Jordan D S 1885 A, 107.
 1905 A, II, 152
 1907 B, 371.
 1921 A, 252
 1923 A, 133.

Jordan and Evermann 1896 A, 346, 388
 Jordan and Gilbert 1882 A, 355.
 Kesteven, H L 1926 A, 133
 Klein, E F 1879 A, 69 113 (Muræna).
 1884 A.
 1885 A
 1886 A
 Kuer, R. 1861 A, 233 (Murænoides).
 Owen, R. 1845 B, 164, pl lvi, figs. 4, 5 (Muræna).
 1848 B, 91, 108.
 Popta, C M. L. 1904 A, 367, figs.
 Porta, A 1905 A, 236 (Murænoides).
 Priem, F. 1914 B, 249 ("murænide," "otolithus")
 Regan, C T 1912 D, 379
 Sagemehl, M. 1883 A ("murænden").
 1884 A, 22 ("murænden").
 Schlosser, M 1917 A, 142, 147 ("murænen").
 Stannius, H 1854 A, 96 (Murænoides).
 Terra, P. 1911 A, 208
 Versluys, J 1925 A, 166 ("murænen").
 Woodward, A S 1901 A, 336.
 Zittel, K A 1890 A, 285.
 Zittel and Koken 1911 A, 127.
 Zittel and Schlosser 1923 A, 133.

DEPRANDUS Jordan and J. Z. Gilbert. Type *D. lestes* Jordan and Gilbert.

Jordan and Gilbert in Jordan, D. S. 1921 A, 252.
 Jordan D. S 1923 A, 134.

Deprandus lestes Jordan and Gilbert.

Jordan and Gilbert, in Jordan, D. S 1921 A, 252, pl. ix, fig b, pl. xxx, fig. b.
 Jordan, D S. 1924 B, 49, pl. L
 Miocene (Monterey); California.

DERRHIIDÆ Jordan.

Jordan, D. S. 1925 B, 15.

DERRHIAS Jordan. Type *D. enantius* Jordan.

Jordan, D S. 1925 B, 15.

The relationships of the genus *Derrhias* are regarded by Jordan as forming a distinct puzzle.

Derrhias enantius Jordan.

Jordan, D S 1925 B, 15, pls. v, vi.
 Miocene (Monterey); California.

Order ISOSPONDYLI Cope.

- Hay, O P 1902 A, 383.
 Agassiz, L 1835 I, 99 ("cycloidians").
 1840 C, 98 ("cycloides").
 1844 D, 139 ("cycloides").
 1844 E, 332 ("cycloids").
 1845 C, 323 ("cycloids").
 Boulenger, G A 1902 C, 389.
 1904 D, 543 (Malacopterygii).
 Cockerell, T. D. A. 1913 B, 122.
 Cope, E D. 1871 T, 452.
 1891 N, 22, 23.
 Dean, Gudger, Henn 1923 A, 625
 Dietz, P A. 1917 A, 83 ("physostomen").
 Eastman, C. R 1905 A, 56.
 1908 A, 64
 1912 A, 228
 Fowler, H W. 1911 A, 151.
 Gill, T. 1885 C, 134
 Goodrich, E S 1904 A, 494
 1909 A, 386 (Clupeiformes).
 Gregory, W K 1907 D, 449, 467.
 1923 A, 238
 Hubbs, C L. 1919 B, 61, 63.
 Jordan, D S 1885 A, 134
 Jordan, D. S. 1904 A, 598.
 1905 A, II, 37, 576
 1907 B, 264, 265, 761.
 1923 A, 116.
 Jordan and Gilbert 1882 A, 256
 Klein, E F 1884 A, 130, 135, 145, 156 (Physostomi)
 Muller, J. 1846 C, (Physostomi, in part)
 Parker and Haswell 1897 A, 204 (Physostomi, part)
 Regan, C. T 1909 B, 77, 82
 1923 B, 460
 Ridewood, W G. 1904 A, 57 ("isospondylous fishes").
 Schlesinger G 1909 A, (147, 151) (Isospondyli).
 Starks E C 1904 C, 254
 Stensio, E A 1925 A, 120
 Traquair, R. H 1900 C, 508
 Woodward, A S. 1901 A, VI, 1.
 1906 C, 281
 1922 C 94
 Zittel and Koken 1911 A, 118 (Physostomi).
 Zittel and Schlosser 1923 A, 124 (Physostomi, in part)

Suborder CLUPEIFORMES Goodrich.

- Goodrich, E S 1909 A, 386
 Jordan, D S 1923 A, 119 (Clupeoides).
 Zittel and Schlosser 1923 A, 124

Superfamily PHOLIDOPHOROIDÆ, new form.

- Gregory, W K 1923 A, 238 (Pholidophoroidea)
 Jordan, D S 1923 A, 116 (Pholidophoroides)
 Regan C T 1923 B, 459 (Haleostomi)

PHOLIDOPHORIDÆ Woodward.

- Woodward, A S 1890 D, 43
 Hay, O. P 1902 A, 383.
 Abel, O. 1906 C, 84
 1919 A, 208
 1922 A, 77.
 Arldt, T 1923 A, 496 ("pholidophoriden")
 Boulenger, G A. 1904 A, 163
 1904 D, 545
 Deecke, W 1926 A, 188 ("pholidophoriden").
 Goodrich, E. S 1904 A, 494.
 1909 A, 336
 1913 A, 80.
 Gregory, W K 1923 A, 238, 241
 Jordan, D. S. 1905 A, II, 26, 586.
 1907 B, 761.
 Jordan, D S 1923 A, 116
 Meek, A 1916 A, 62
 Plien, F 1908 B ("pholidophoridés")
 Regan, C T 1910 A, 354
 1923 B, 458
 Schlosser, M. 1917 A, 135, 136, 138 ("pholidophoriden").
 Steuaro, E A 1925 A, 119 ("pholidophorids").
 Stolk, E 1920 A, 76, 79
 Traquair, R H 1900 C 508
 Vetter, B 1881 A, 55 (Pholidophori)
 Woodward, A S 1915 B, lxxiv.
 Zittel and Koken 1911 A, 110
 Zittel and Schlosser 1923 A, 111
 Zittel and Woodward 1902 A, 84

PHOLIDOPHORUS Agassiz. Type *P. macrocephalus* Agassiz.

- Hay, O P 1902 A, 383.
 Abel, O 1919 A, 211, fig. 165.
 1921 A, 211, fig. 72.
 Agassiz, L 1832 A, 145.
 1833 A, 475
 1844 C, 265
 Alessandri, G 1910 A, 125.
 Arldt, T 1923 A, 496.
 Bronn H G 1848 B, 967.
 1849 A, 660.
 Cross, W. 1908 A, 107
 Cross and Howe 1905 A, 486.
 Deecke, W. 1913 A, 80, 81.
 Eastman C R 1917 A, 278
 Egerton, P G. 1852 C 6 E, 1 pls. IV, V
 1855 A 8 E, 1, pls. IV, VII.
 Giebel, C. G. 1855 A, 113.
 Goodrich, E S 1908 A, 769
 Heckel, J J 1850 A, 361, 365
 Hussakof, L 1916 C, 348
 Jordan, D. S 1905 A, II, 28, 586
 Jordan and Evermann 1917 A, 140.
 Klaatsch, H 1890 A, 144
 Lutken, C 1868 C.
 Meek, A. 1916 A, 63.
 Plien F 1908 B 16 pl. 1, fig. 3

Priem, F. 1912 B, 251
 Ridewood, W G 1904 A, 69.
 Scupin, H 1896 A, 169, pl x, fig 4.
 Stenmann, G. 1907 A, 413
 1927 A, 13
 Stolley, E 1920 A, 76
 Stromer, E 1925 B, 358
 Traquair, R. H. 1911 A, 43
 Vetter, B 1881 A, 58-72
 Wmckler, T C. 1871 B 184.
 Woodward, A S 1891 G, 545
 1897 E, 150, pl.
 1906 C, 280

Woodward, A. S. 1919 A (1918), 101, pl. xx;
 text-fig 34.
 Zittel and Koken 1911 A, 110
 Zittel and Schlosser 1923 A, 111, figs 191, 192.
 Zittel and Woodward 1902 A, 85
Pholidophorus americanus Eastman.
 Hay, O. P 1902 A 383.
 Gilmore, C W 1905 A, 80
 Jordan D S. 1905 A, ii, 28.
 Merrill G P 1907 A, 15.
 Sauvage, H E 1900 B, 116
 Jurassic ("basal"), South Dakota.

LEPTOLEPIDÆ.

Aldt, T. 1923 A 497 ("leptolepididen").
 Boulenger, G A 1904 A, 163.
 Bridge, T. W 1904 A, 546
 Cockerell T D A. 1919 A, 173.
 Goodrich, E S 1909 A, 371.
 Jordan, D S 1905 A, ii, 41.
 1907 B, 268
 1923 A, 117.

Nicholson and Lydekker 1889 A, 990 (Leptolepididæ)
 Woodward A S 1895 A, 500
 1898 B, 115
 1915 B lxxiv
 Zittel and Brooh 1911 A 119
 Zittel Eastman etc 1902 A, 93
 Zittel and Koken 1911 A, 119.
 Zittel and Schlosser 1923 A, 122

THRISOOPS Agassiz. Type *T. formosus* Agassiz.

Agassiz L 1843 B (1833), ii, pt. 1, 12.
 Goodrich, E S 1909 A 371
 Jordan, D S 1905 A, ii, 42
 Nicholson and Lydekker 1889 A, 990
 Woodward A S 1895 A, 521
 1898 B 116
 Zittel, K A 1890 A, 272, figs 280, 281

Zittel, Eastman, etc 1902 A, 94
 Zittel and Koken 1911 A, 120, figs 222, 223.
 Zittel and Schlosser 1923 A, 122, figs. 215, 216.

Thrisops sp. indet.

Felix J 1891 A 194 pl xxx, fig 10. Lower
 Cretaceous (Neocomian), Mexico

Superfamily ELOPOIDÆ, new form.

GANOLYTIDÆ Jordan.

Jordan D S 1921 A, 241

Jordan, D S 1923 A, 118.

ETRINGUS Jordan. Type *E. scintillans* Jordan.

Jordan D S 1907 A, 121.
 Aldt, T 1923 A 497
 Hubbs C L 1924 A, 177
 Jordan D S 1919 A, 5.
 1921 A, 241.

Etringus scintillans Jordan.

Jordan D S 1907 A, 121, fig 17 (not figs 18, 19)

Jordan, D S 1919 A, 5, pl. i, pl iii, fig 1.
 1921 A 241
 Miocene? (Soledad), California.

Etringus sp. indet.

Jordan, D S 1907 A, 124 Miocene; California.

GANOËSSUS Jordan. Type *Ganolytes clepsydra* Jordan and Gilbert

Jordan, D. S 1920 C, 571.
 1921 A, 241.

Ganoëssus clepsydra (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 23, pl. xi, fig 1
 (Ganolytes)

Jordan, D S. 1920 C, 571
 1921 A, 241, pl xvi
 1925 B, 8, 49
 Miocene (Monterey); California.

GANOLYTES Jordan. Type *G. cameo* Jordan.

Jordan, D S 1919 A, 5, 6
 Hubbs, C. L 1924 A, 178
 Jordan, D S 1921 A, 241.

Ganolytes cameo Jordan.

Jordan, D S 1919 A, 5, 6, pl ii, fig. 3; pl. iv,
 figs 1, 2
 Jordan D. S 1907 A, 121, figs. 18, 19
 (Etringus scintillans?)

Jordan, D. S. 1921 A, 241, pl. xv.
1925 B, 49

Jordan and Gilbert 1919 A, 24.
Miocene? (Soledad); California.

PACHYRHIZODONTIDÆ Cope.

Hay, O. P. 1902 A, 387.
Boulenger, G. A. 1904 D, 569
Fowler, H. W. 1911 A, 151 (Raphiosauridæ)

Jordan, D. S. 1905 A, 11, 44
1907 B, 271, 761
1923 A, 118 (Raphiosauridæ)

PACHYRHIZODUS Dixon.

Type *P. basalis* Dixon.

Dixon, F. 1850, Geol. Sussex, 374
Hay, O. P. 1902 A, 387.
Agassiz, L. 1843 B, (1835) iv, 35 (Megalodon, in part).
1843 B, (1837) Feuille, 104 (Hypsodon, in part)
Boulenger, G. A. 1904 D, 569.
Cockerell, T. D. A. 1919 A, 173, 174.
Cope, E. D. 1880 U, 147.
Dollo, L. 1892 F, 181.
Fowler, H. W. 1911 A, 152 (Syn. of *Raphiosaurus* Owen).
Hay, O. P. 1903 A, 29, 59.
Hennig, E. 1912 A, 490.
Jordan, D. S. 1919 B, 246.
1925 A, 219, 220.
Krause, P. G. 1901 A, 120.
Mason, J. W. 1869, Quart. Jour. Geol. Soc. Lond., xxv, 444 (*Acrodonosaurus*).
Owen, R. 1842 Trans. Geol. Soc. Lond. (2), vi 413 (Raphiosaurus, type *R. subulidens* Owen = *Pachyrhizodus*?)
Schlosser, M. 1901 L, 480
Storms, R. 1891 A, 151, 152
Woodward, A. S. 1889 J 351 (*Pachyrhizodus*, *Raphiosaurus*)
1898 B, 118
1901 A, 8, 37
1912 A (1907), 123, pls. xxv, xxvi; (1908), 129, pls. xxvii, xxviii; text-fig. 29.
Zittel and Koken 1911 A, 125.
Zittel and Schlosser 1923 A, 129.

Pachyrhizodus caninus Cope.

Hay, O. P. 1902 A, 387
1903 A 60, pl. iii figs 1, 2; text-figs. 44, 45
Hussakof, L. 1908 A, 85
Priem, F. 1908 B, 66
Woodward, A. S. 1901 A, 44
Zittel and Schlosser 1923 A, 129, fig. 226.
Upper Cretaceous (Niobrara), Kansas: Cretaceous France

Pachyrhizodus curvatus Loomis.

Hay, O. P. 1902 A, 388
Woodward, A. S. 1901 A, 44
Upper Cretaceous (Niobrara), Kansas

Pachyrhizodus kingii Cope.

Hay, O. P. 1902 A, 388
Woodward, A. S. 1901 A, 42 (Syn. of *P. latimentum*)
Upper Cretaceous (Niobrara), Kansas.

Pachyrhizodus latimentum Cope.

Hay, O. P. 1902 A, 388
Woodward, A. S. 1901 A, 42
Upper Cretaceous (Niobrara), Kansas.

Pachyrhizodus leptognathus Stewart.

Hay, O. P. 1902 A, 388
Woodward, A. S. 1901 A, 45
Upper Cretaceous (Niobrara), Kansas

Pachyrhizodus leptopsis Cope.

Hay, O. P. 1902 A, 388
1903 A, 64
Hussakof, L. 1908 A, 85
Woodward, A. S. 1901 A, 45.
Upper Cretaceous (Niobrara), Kansas

Pachyrhizodus minimus Stewart.

Hay, O. P. 1902 A, 388.
Sauvage, H. E. 1899 C, 150.
Schlosser, M. 1901 L, 480
Woodward A. S. 1901 A, 45.
Upper Cretaceous (Niobrara), Kansas.

Pachyrhizodus velox Stewart.

Hay O. P. 1902 A, 388
Woodward, A. S. 1901 A, 45
Upper Cretaceous (Niobrara); Kansas.

Pachyrhizodus sp. indet.

Lambe, L. M. 1914 H, 402 Upper Cretaceous (Niobrara); Wyoming.

ORICARDINUS Cope. Type *O. tortus* Cope.

Hay, O. P. 1902 A, 388.
Hennig, E. 1912 A, 490.
Zittel and Koken 1911 A, 125.

Oricardinus sheareri Cope.

Hay, O. P. 1902 A, 388.
1903 A, 64, text-fig. 46.
Hussakof, L. 1908 A, 84.

Woodward, A. S. 1901 A, 45 (*Pachyrhizodus*).
Cretaceous (Niobrara), Kansas.

Oricardinus tortus Cope.

Hay, O. P. 1902 A, 388.
1903 A, 65, text-figs. 47, 48, 49?
Hussakof, L. 1908 A, 84
Woodward, A. S. 1901 A, 46.
Cretaceous (Niobrara), Kansas

CONOSAURUS Gibbes. Type *C. bowmani* Gibbes.

Hay, O. P. 1902 A, 388.

Fowler, H. W. 1911 A, 152.

Conosaurus bowmani Gibbes.

Hay, O. P. 1902 A, 388.

Fowler, H. W. 1911 A, 152, fig. 93.

Woodward, A. S. 1901 A, 612 (Conosaurops).

Upper Cretaceous (Greensand), South Carolina, New Jersey; Eocene?; South Carolina.

ELOPIDÆ Richardson.

Richardson, J. 1856 A, 251.

Ardit, T. 1912 A, 762.

1923 A, 497 ("elopiden").

Boulenger, G. A. 1901 D, 46.

1904 D, 544, 546.

Cockerell, T. D. A. 1913 B, 122.

1919 A, 173, 174.

Cope, E. D. 1871 T, 455.

Dean, Gudger, Henn 1923 A, 594, 625

Gill, T. 1885 C, 137

1905 F, 31.

Goodrich, E. S. 1909 A, 387.

Heckel, J. J. 1856 A, 250.

Jackel, O. 1911 A, 89.

Jordan, D. S. 1885 A, 137

1921 A, 242.

1923 A, 117.

Jordan and Evermann 1896 A 407.

Jordan and Gilbert 1882 A, 260.

Moodie, R. L. 1911 G, 282.

Owen, R. 1848 B, 69 (Elops).

Regan, C. T. 1910 A, 254.

1923 B, 457.

Ridewood, W. G. 1904 A, 35, 37.

Schlosser, M. 1917 A, 139, 140, 148 ("elopiden").

Shepherd, C. E. 1914 A, 263.

Stromer, E. 1912 A, 33.

Woodward, A. S. 1898 B, 117.

1901 A, vi, 7.

1912 A, (1907), 112.

Zittel, K. A. 1890 A, 278 (Elopina)

Zittel, Eastman, etc. 1902 A, 94.

Zittel and Koken 1911 A, 124.

Zittel and Schlosser 1923 A, 129.

HOLCOLEPIS Marck. Type *Rhabdolepis cretaceus* Marck.Marck W. 1868, Palaeontogr., xv, 278 (To replace *Rhabdolepis*, preoccupied).

Cockerell, T. D. A. 1919 A, 173.

Marck W. 1863 A, 26 (*Rhabdolepis*)

Jordan, D. S. 1905 A, i, 454, fig. 265; ii, 43.

1907 B, 270, fig. 201.

1919 B, 339, 352.

Woodward, A. S. 1901 A, 11.

Holcolepis delicatus Cockerell.

Cockerell, T. D. A. 1919 A, 175, pl. xxxi, fig. 5.

Upper Cretaceous (Mowry); Wyoming.

Holcolepis obliquus Cockerell.

Cockerell, T. D. A. 1919 A, 175

Upper Cretaceous (Mowry), Wyoming

Holcolepis pulchellus Cockerell.

Cockerell, T. D. A. 1919 A, 174, pl. xxi, figs. 3, 4

Upper Cretaceous (Niobrara or Benton), Colorado

Holcolepis transversus Cockerell.

Cockerell, T. D. A. 1919 A, 175, pl. xxxi, figs. 6-13

Upper Cretaceous (Mowry), Wyoming; (Benton); Colorado.

Holcolepis sp. indet.

Cockerell, T. D. A. 1919 A, 175, pl. xxxii, fig. 2

(Colorado beds); Wyoming

Reeside, J. B. 1924 A, 12, pl. iii. Upper Cretaceous (Mancos); New Mexico.

HELMINTHOLEPIS Cockerell. Type *H. vermiculatus* Cockerell.

Cockerell, T. D. A. 1919 A, 176.

Helmintholepis vermiculatus Cockerell.

Cockerell, T. D. A. 1919 A, 176, pl. xxxii, fig. 4.

Upper Cretaceous (Fox Hills), Colorado.

ECTASIS Jordan and Gilbert. Type *E. proriger* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 62.

Hubbs, C. L. 1924 A, 178.

Jordan, D. S. 1921 A, 242.

Ectasis proriger Jordan and Gilbert.

Jordan and Gilbert 1919 A, 62.

Jordan, D. S. 1921 A, 242, pl. xvii, fig. a.

Upper Pliocene; California.

SPANIODONTIDÆ Jordan.

Jordan, D. S. 1905 A, ii, 43.

Jordan, D. S. 1923 A, 117 (To Elopidae).

SPANIODON Pietet. Type *S. blondelii* Pietet.

Hay, O. P. 1902 A, 391.

Cope, E. D. 1880 U, 147.

Davis, J. W. 1887 C, 593 (Lewisa, type *L. ovalis* Davis).

Hay, O. P. 1903 G, 694.

Henning, E. 1912 A, 490.

Jordan, D. S. 1923 A, 117.

Woodward, A. S. 1901 A, 48.

Zittel and Koken 1911 A, 125.
1923 A, 129

Spaniodon simus Cope.

Hay, O P 1902 A, 391

Cockerell, T. D. A. 1919 A, 173
Hay, O P. 1903 A, 47, pl. iv, figs. 1, 2.
Hussakof, L. 1908 A, 101.
Woodward, A. S. 1901 A, 53.
Cretaceous (Niobrara); South Dakota.

THRISGOPATER Gunther. Type *T. salmoneus* Gunther.

Gunther, A. C. 1872, figs. Descrip. Brit. Org. Remains, dec. xiii.
Boulenger, G. 1904 D, 562
Jordan, D. S. 1905 A, ii, 43.
Moodie, R. L. 1911 G, 231.
Woodward, A. S. 1901 A, 32
1912 A (1908), 136

Thrissopater intestinalis Moodie.

Moodie, R. L. 1911 G, 281; pl. lxii
1913 A, 249
Upper Cretaceous (Niobrara); Texas

Superfamily ALBULOIDEÆ, new name.

PELYCORAPIDÆ Cragin.

Cragin, F. W. 1901 A, 31 (Pelecporapidae); 25 | Jordan, D. S. 1925 A, 229, 230 (Syllæmidae) (Syllæmidae)

SYLLÆMUS Cope. Type *S. latifrons* Cope.

Hay, O. P. 1902 A, 399
Boulenger, G. A. 1904 D, 565 (Scyllæmus).
Cockerell, T. D. A. 1919 A, 185.
Cragin, F. W. 1901 A, 26.
Goodrich, E. S. 1909 D, 393 (Scyllæmus).
Jordan, D. S. 1925 A, 229.
Woodward, A. S. 1901 A, xi, 350.
1912 A (1903), 88, pls. xx, xxi.

Syllæmus latifrons Cope.

Hay, O. P. 1902 A, 399.

Cockerell, T. D. A. 1908 C, 176
1914 A, 190.
1919 A, 180
Cragin, F. W. 1901 A, 27, pl. i, figs.
Cope, E. D. 1877 K, 27, pl. xxviii, fig. 1
Jordan, D. S. 1905 A, ii, 224.
1907 B, 439
Merrill, G. P. 1907 A, 20.
Woodward, A. S. 1901 A, 351, 614.
Cretaceous?; New Mexico.

APSOPELIX Cope. Type *A. sauriformis* Cope.

Hay, O. P. 1902 A, 390.
Cockerell, T. D. A. 1919 A, 171, 172, 185
Jordan, D. S. 1925 A, 229
Woodward, A. S. 1901 A, 353.

Apsopelix sauriformis Cope.

Hay, O. P. 1902 A, 390
Cockerell, T. D. A. 1919 A, 185
Cope, E. D. 1874 B, 431.
Hussakof, L. 1908 A, 62.
Jordan, D. S. 1925 A, 230, pl. xx
Cretaceous (Benton), Kansas

PELYCORAPIS Cope. Type *P. varius* Cope.

Cope, E. D. 1874 C, 39 (Pelecporapis, lapsu calami).
Hay, O. P. 1902 A, 399 (Pelecporapis).
Cockerell, T. D. A. 1919 A, 185, 187.
Cragin, F. W. 1901 A, 31, (Pelecporapis).
Jordan, D. S. 1923 A, 157 (Pelecporapis).
1925 A, 229 (Pelecporapis)
Woodward, A. S. 1901 A, 354 (Pelecporapis).

Pelecporapis berycinus (Cope).

Hay, O. P. 1902 A, 399 (Pelecporapis).
Cockerell, T. D. A. 1908 C, 176 (Pelecporapis).
1919 A, 187 (Pelecporapis).
Hussakof, L. 1908 A, 86, fig. 44 (Pelecporapis).
Woodward, A. S. 1901 A, 354.
Upper Cretaceous (Pierre?); Montana?

Pelecporapis microlepis Cragin.

Cragin, F. W. 1901 A, 35, pl. ii, fig. 3 (Pelecporapis).
Upper Cretaceous (Benton), Kansas

Pelecporapis varius Cope.

Hay, O. P. 1902 A, 399
Cockerell, T. D. A. 1919 A, 171, 187
Cope, E. D. 1874 B, 431 (P. varians).
Cragin, F. W. 1901 A, 32, pl. ii, figs. 1, 2
Hussakof, L. 1908 A, 87.
Woodward, A. S. 1901 A, 354
Cretaceous (Benton); Kansas.

LEPTICHTHYS Stewart. Type *L. agilis* Stewart.

Hay, O. P. 1902 A, 392.
Jordan, D. S. 1925 A, 229.

Leptichthys agilis Stewart.

Hay, O. P. 1902 A, 392
Jordan, D. S. 1925 A, 231, pl. xxi
Woodward, A. S. 1901 A, 614, 616.
1912 A, (1903), 88.
Upper Cretaceous (Niobrara); Kansas

ALBULIDÆ Cope.

- Cope, E. D.* 1871 T, 455.
Hay, O. P. 1902 A, 390.
Allis, E. P. 1909 A, 213 (Albula).
Ardlt, T. 1923 A, 497.
Boulenger, G. A. 1904 A, 164.
 1904 D, 547.
Cockerell, T. D. A. 1913 B, 122.
 1919 A, 172.
Cope, E. D. 1872 C, 329, 333.
Dean, Gudge, Henn. 1923 A, 594, 625.
Dietz, P. A. 1917 A, 84.
Frost, G. A. 1925 A, 155, pl. xi (Albula).
Gill, T. 1885 C, 137.
 1905 F, 40 pls. xvi, xviii, xxi; text-figs 5-7.
Goodrich, E. S. 1909 A, 387.
Gregory, W. K. 1907 D, 469.
Hubbs, C. L. 1919 B, 63 (Albula).
Jordan, D. S. 1885 A, 137.
 1905 A, ii, 44, 556.
 1907 B, 271, 761.
- Jordan, D. S.* 1923 A, 118.
Jordan and Evermann 1896 A, 410.
Jordan and Gilbert 1882 A, 258.
Klaatsch, H. 1890 A, 168, pl. vii (Albula).
Meek, A. 1916 A, 63.
Puerm, F. 1908 B, 81 (Albula).
Rauther, M. 1913 A, 1100.
Regan, C. T. 1910 A, 357.
Ridewood, W. G. 1904 A, 35, 47.
 1904 B, 213.
 1905 C, 272.
Schlosser, M. 1917 A, 140, 143.
Shepherd, C. E. 1914 A, 264.
Starks, E. C. 1916 A, 14 (Albula).
Woodward, A. S. 1899 C, 361.
 1901 A, vi, 4, 59.
 1923 B, 297.
Zittel and Koken 1911 A, 121.
Zittel and Schlosser 1923 A, 126.
Zittel and Woodward 1902 A, 94.

(CYCLOIDES) Winckler. Type *C. incisus* Winckler.

- Winckler, T. C.* 1876 A, 3, pl. i, fig. 2.
Cockerell, T. D. A. 1919 A, 173.
Jordan, D. S. 1919 B, 398.
- Cycloides? incertus** Cockerell.
Cockerell, T. D. A. 1919 A, 173, pl. xxxi, fig. 2.
 Upper Cretaceous (Mesa Verde), Wyoming.

PETALOLEPIS Steinla. Type *Osmeroides divaricatus* Gemitz.

- Steinla, M.* 1868, in Gemitz, H. B. 1868 A, 42, pl. ii, fig. 18 (As syn. of *Osmeroides*).
Jordan, D. S. 1919 B, 350.
- Petalolepis? fibrillatus** Cockerell.
Cockerell, T. D. A. 1919 A, 172, pl. xxxi, fig. 1.
 Upper Cretaceous (Mesa Verde); Wyoming.

CYCLOTOMODON Cope. Type *C. vagrans* Cope.

- Hay, O. P.* 1902 A, 390.
- Cyclotomodon vagrans** Cope.
Hay, O. P. 1902 A, 390.
Woodward, A. S. 1901 A, 45.
 Phosphate beds, South Carolina.

ANOGMIIDÆ Jordan.

- Jordan, D. S.* 1925 A, 219.

ANOGMUS Cope. Type *A. contractus* Cope.

- Cope, E. D.* 1871 J, 170.
Hay, O. P. 1902 A, 393.
Ardlt, T. 1923 A, 497.
Cockerell, T. D. A. 1919 A, 172.
Cope, E. D. 1877 G, 584.
Hay, O. P. 1903 A, 26, text-figs. 15-17, 33-36.
 (This genus?).
Hennig, E. 1912 A, 490.
Jordan, D. S. 1919 B, 360, 388.
 1925 A, 219 (Thryptodus, *Pseudothryptodus*, syn.?).
Schlosser, M. 1901 L, 480.
Woodward, A. S. 1901 A, 71, foot-note.
 1912 A (1907), 105.
 1923 B, 297, fig. 1.
Zittel and Koken 1911 A, 124.
Zittel and Schlosser 1923 A, 129.
- Anogmus contractus** Cope.
Hay, O. P. 1902 A, 393 (A. contractus, A. aratus).
 1903 A, 28 (A. contractus); 34, pl. ii, text-figs. 23-26 (A. aratus).
Hussakof, L. 1908 A, 61, fig. 30.
Jordan, D. S. 1925 A, 219, 220 (A. aratus, a syn.).
Woodward, A. S. 1901 A, 71 (A. contractus), 72 (A. aratus).
 1912 A (1907), 105, fig. 33.
 1923 B, 298.
Zittel and Koken 1911 A, 124, fig. 231 (A. aratus).
Zittel and Schlosser 1923 A, 128, fig. 25 (A. aratus).
 Upper Cretaceous (Niobrara); Kansas.
- This genus may be identical with *Pachyrhizodus*.

Anogmus evolutus Cope.

Hav. O P. 1902 A, 393.

1903 A, 46 text-fig 37.

Hussakof, L. 1908 A, 62.

Jordan, D. S. 1925 A, 220, 221.

Woodward, A. S. 1901 A, 72 (Anogmus), 386 (Beryx multidentatus).

Upper Cretaceous (Niobrara); Kansas

Anogmus favirostris Cope.

Hay, O. P. 1902 A, 393

1903 A 30 text-figs 18-21

Hussakof L. 1908 A, 62.

Jordan, D. S. 1925 A, 220

Woodward, A. S. 1901 A, 73

Upper Cretaceous (Niobrara), Kansas.

Anogmus intermedius (Loomis).

Hav. O. P. 1902 A, 393.

Jordan, D. S. 1925 A, 219

Woodward, A. S. 1901 A, 85 (Pseudothyrtodus).

Upper Cretaceous (Niobrara); Kansas.

Anogmus polymicrodus (Stewart).

Hay, O. P. 1902 A, 393

Cockerell, T. D. A. 1919 A, 179.

Hay O. P. 1903 A, 35

Jordan, D. S. 1925 A, 219, 220, pl. xiii.

Lambe, L. M. 1914 H, 402.

Sauvage, H. E. 1901 A, 6

Schlosser, M. 1901 L, 479

Woodward, A. S. 1901 A, 72.

Upper Cretaceous (Niobrara), Kansas

Anogmus sp. indet.

Hay O. P. 1903 A, 27, 30, 44, figs 15, 17, 33,

34 Upper Cretaceous (Niobrara), Kansas

Hussakof L. 1908 A, 62 Upper Cretaceous (Niobrara), Kansas

PLETHODONTIDÆ Woodward.

Woodward, A. S. 1912 A (1907), 105

Hav. O. P. 1902 A, 393 (Osteoglossidæ, in part).

Cockerell, T. D. A. 1919 A, 172, 179.

Hav. O. P. 1903 A, 26 (Plethodidæ)

Jordan, D. S. 1905 A, ii, 44 (Thyrtodontidæ).

1907 B, 271 (Thyrtodontidæ)

1923 A, 119 (Thyrtodontidæ).

Jordan D. S. 1925 A, 220 (Anogmudæ?)

Loomis, F. B. 1900 A, 229, 233 (Plethodidæ)

Schlosser, M. 1917 A, 140 ("plethodiden")

Woodward, A. S. 1899 C, 353, pls. xiii, xiv (Plethodus).

Zittel and Koken 1911 A, 124 (Plethodidæ)

Zittel and Schlosser 1923 A, 128 (Plethodidæ)

THYRTODUS Loomis.

Type *T. zitteli* Loomis.

Hav. O. P. 1902 A, 393 (Anogmus).

Andreæ, A. 1904 A, 309.

Cockerell, T. D. A. 1919 A, 179 (Plethodus).

Jordan D. S. 1905 A, ii, 44 (Thyrtodus, Plethodus)

1907 B, 271 (Thyrtodus Plethodus).

1920 C, 490 (Type "Plethodus zitteli Loomis")

1925 A 219 (Thyrtodus)

Storms, R. 1891 A, 151 (Plethodus)

Woodward A. S. 1899 C, 353, pls. xiii, xiv (Plethodus)

1901 A, 85

1912 A (1907), 107, pl. xxii (Thyrtodus, a syn. of Plethodus).

Zittel and Koken 1911 A 124 (Plethodus)

Zittel and Schlosser 1923 A, 129 (Thyrtodus, Plethodus)

Thyrtodus rotundus Loomis.

Hav. O. P. 1902 A, 393 (Anogmus)

Woodward A. S. 1901 A, 85.

Upper Cretaceous (Niobrara), Kansas

Thyrtodus zitteli Loomis.

Hav. O. P. 1902 A, 393 (Anogmus)

1903 A 38 41 42

Jordan D. S. 1920 C 490

1925 A 219.

Woodward, A. S. 1901 A, 85

Upper Cretaceous (Niobrara), Kansas

SYNTEGMODUS Loomis.

Type *S. altus* Loomis.

Hav. O. P. 1902 A 390

Jordan, D. S. 1905 A, ii, 45

1907 B, 271.

Woodward, A. S. 1901 A, 84 (Syn. of Plethodus).

Zittel and Koken 1911 A, 124

Zittel and Schlosser 1923 A, 129.

Syntegmodus altus Loomis.

Hay, O. P. 1902 A, 390.

1903 A, 41, text-figs 27-33? (Anogmus)

Hussakof L. 1908 A, 61 (Anogmus. This species?)

Jordan D. S. 1905 A, ii, 44

Woodward A. S. 1901 A, 84

Upper Cretaceous (Niobrara); Kansas

NIOBRARIDÆ Jordan.

Jordan, D. S. 1925 A, 222

NIOBRARA Jordan. Type *N. encarsia* Jordan.

Jordan, D. S. 1925 A, 222.

Niobrara encarsia Jordan.

Jordan, D. S. 1925 A, 223, pl. xiv

Upper Cretaceous (Niobrara); Kansas.

ZANCLITES Jordan. Type *Z. xenurus* Jordan.

Jordan, D. S. 1925 A, 224

Zanclites xenurus Jordan.Jordan, D. S. 1925 A, 224, fig. 15
Upper Cretaceous (Niobrara); Kansas.KANSANUS Jordan. Type *K. martini* Jordan.

Jordan, D. S. 1925 A, 226.

Kansanus martini Jordan.Jordan, D. S. 1925 A, 226, pl. xvi
Upper Cretaceous (Niobrara); Kansas.LUXILITES Jordan. Type *L. striolatus* Jordan.

Jordan, D. S. 1925 A, 226

Luxilites striolatus Jordan.Jordan, D. S. 1925 A, 227, pl. xvii.
Upper Cretaceous (Niobrara); Kansas.FERRIFRONS Jordan. Type *F. rugosus* Jordan.

Jordan, D. S. 1925 A, 227.

Ferrifrons rugosus Jordan.Jordan, D. S. 1925 A, 228
Upper Cretaceous (Niobrara), Kansas.

PTEROTHRISIDÆ Gill.

Gill, T. 1893 A, 131.

Cockerell, T. D. A. 1919 A, 172

Goode and Bean 1895 A, 50.

Jordan, D. S. 1905 A, ii, 44 (Thyptodontidæ);
46 (Pterothrissidæ)
1907 A, 127, fig. 22 ("pterothrissoid fish").
1907 B, 273.
1923 A, 119CHICOLEPIS Cockerell. Type *C. punctatus* Cockerell.

Cockerell, T. D. A. 1919 A, 177.

Chicolepis punctatus Cockerell.Cockerell, T. D. A. 1919 A, 177, pl. xxxiv, fig. 1
Upper Cretaceous (Chico), California.Superfamily CLUPEOIDÆ, *new form.*

Frost, G. A. 1925 A, 153 (Clupeoidea).

Gill, T. 1873 F, 11 (Clupeoidea)

Jordan, D. S. 1905 A, ii, 41 (Clupeoidea)

1907 B, 268 (Clupeoidea)

1923 A, 119 (Clupeoiden).

Regan, C. T. 1909 B, 77 (Clupeoiden)

Ridewood, W. G. 1905 B, 448 ("clupeoid fishes")

Tracy, H. C. 1920 A, 441 ("clupeoids")

ICHTHYODECTIDÆ Crook.

Crook, A. R. 1892 A, 111, 121.

Hay, O. P. 1902 A, 383 (Chnocoentræ, Ichthyodectinæ)

Ardt, T. 1923 A, 499 ("saurodontiden").

Cockerell, T. D. A. 1919 A, 177, 178.

Etheridge, R. 1905 A, 5.

Fowler, H. W. 1911 A, 154.

Jordan, D. S. 1905 A, ii, 48.

1907 B, 274, 761.

Jordan, D. S. 1923 A, 119.

Regan, C. T. 1922 A, 206

Sauvage, H. E. 1901 F, 77 ("ichthyodectidés")

Schlosser, M. 1901 L, 479

1917 A, 140, 141, 142 ("ichthyodectiden").

Zittel and Koken 1911 A, 128

Zittel and Schlosser 1923 A, 127.

Zittel and Woodward 1902 A, 95

XIPHACTINUS Leidy. Type *X. audax* Leidy.

Leidy, J. 1870 H, 12.

Hay, O. P. 1902 A, 383 (Porthæus, in part).

Bayer, F. 1908 A, 1.

Cope, E. D. 1871 S, 608.

Jordan, D. S. 1919 B, 358.

Rogers, A. F. 1924 A, 546.

Woodward, A. S. 1901 A, 92 (Syn of Porthæus).

The fin-ray on which this genus was based probably belonged to one of the species below referred to *Porthæus*.**Xiphactinus audax** Leidy.

Leidy, J. 1870 H, 12.

Hay, O. P. 1902 A, 384 (Porthæus?).

Upper Cretaceous (Niobrara); Kansas.

PORTHEUS Cope. Type *P. molossus* Cope.

- Hay, O P. 1902 A, 383.
 Ameghino, F. 1906 A, 186.
 Andreae, A. 1901 A, 309.
 1904 A, 309 (Porteus).
 Bayer, F. 1908 A, 1 [Portheus (Xiphactinus)].
 1909 A, 48.
 Cockerell, T. D. A. 1917 A, 62.
 1919 A, 177 (Hypsodon).
 Cope, E. D. 1880 U, 147.
 Dames, W. 1899 I, 155.
 Dean, Gudgei, Henn. 1923 A, 626.
 Dollo, L. 1892 F, 181.
 Etheridge, R. 1905 A, 5.
 Hay, O P. 1899 H, 487.
 Hennig, E. 1912 A, 490.
 Jordan, D. S. 1919 B, 186, 219.
 Leriche, M. 1902 B, 137.
 McCune, C. E. 1908 B, 235, pls x-xii; text-figs 1-7.
 Osborn, H. F. 1904 I, 35.
 1917 B, 209, 210, fig.
 Priem, F. 1908 B, 61, fig. 23 (Portheus).
 Ridewood, W. G. 1905 B, 492.
 Rogers, A. F. 1924 A, 546 (Xiphactinus).
 Sauvage, H. E. 1899 C, 151.
 Schlosser, M. 1901 L, 480.
 Storms, R. 1891 A, 150, 151.
 Woodward, A. S. 1894 C, 444.
 1901 A, 87, 921.
 1912 A (1907), 99, pls xxi; text-figs 26-30.
 1913 A, 529 (Portheus, =? Chirocentrites).
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 127 (Portheus).
 Zittel and Woodward 1902 A, 95.
 This genus is possibly identical with *Xiphactinus* and *Hypsodon*.

Portheus brachygnathus Stewart.

- Hay, O P. 1902 A, 384.
 Schlosser, M. 1901 L, 479 (Xiphactinus).
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Niobrara), Kansas.

Portheus? granulosus (Cockerell).

- Cockerell, T. D. A. 1919 A, xxxii, fig 5 (Hypsodon).
 Upper Cretaceous (Mowry); Wyoming.

Portheus lestrio Cope.

- Hay, O P. 1902 A, 384.
 Bayer, F. 1908 A, 3.
 1909 A, 102.
 Hussakof, L. 1908 A, 88.
 Woodward, A. S. 1901 A, 97.
 Cretaceous (Niobrara); Kansas.

Portheus lowii Stewart.

- Hay, O. P. 1902 A, 384.
 Cockerell, T. D. A. 1919 A, 178, pl. xxxiv, fig. 2 (Hypsodon).
 Dames, W. 1899 I, 156.
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Benton); Kansas.

Portheus molossus Cope.

- Hay, O P. 1902 A, 384 (P. audax, P. molossus, P. thaumas).
 Abel, O. 1922 C, 320.
 Andreae, A. 1901 A, 309.
 Anonymous, 1910 A, 198.
 Bayer, F. 1908 A, 3 (P. molossus, P. thaumas).
 1909 A, 98 (P. molossus); p. 100 (P. thaumas).
 Cockerell, T. D. A. 1908 C, 173 (P. thaumas).
 1919 A, 177, pl. xxxii, fig 8, pl. xxxiii, figs. 1, 2 (Hypsodon).
 Cope, E. D. 1891 N, 23, fig 10.
 Holland, J. W. 1909 A, 453 (P. molossus).
 Hussakof, L. 1908 A, 88, fig 46 (P. molossus); 89 (P. thaumas).
 Jaekel, O. 1911 A, 89, 90, figs. 100, 101 (P. molossus, P. thaumas).
 Jordan, D. S. 1905 A, ii, 48, fig 36.
 1907 B, 274.
 Lambe, I. M. 1914 H, 399, 402, pl. i.
 1915 B, 118.
 Martin, H. T. 1907 A, 128, fig.
 Osborn, H. F. 1901 E, 331.
 1901 G, 160.
 1904 E, 377, pl. v, text-figs 1-4.
 1904 F, 35.
 Reeside, J. B. 1924 A, 11, pl. iii.
 Sternberg, C. H. 1881 B, 4.
 1905 A, 127.
 1907 A, 295.
 1907 C, 122 (P. molossus).
 1909 C, 54, fig 12.
 1913 A, 48.
 1917 A, 11, 168, fig 5.
 1918 A, 205 (Portheus).
 Stromer, E. 1912 A 33, fig 44.
 Woodward, A. S. 1901 A, 92 (P. molossus); 97 (P. thaumas).
 1912 A (1907), 100 text-figs. 26-28.
 1913 A, 529, pl. xviii.
 1921 C, 181.
 Zittel and Schlosser 1923 A, 128, fig 224.
 Upper Cretaceous (Niobrara) Kansas.

Portheus mudgei Cope.

- Hay, O P. 1902 A, 384.
 Bayer, F. 1908 A, 2.
 1909 A, 102.
 Woodward, A. S. 1901 A, 97.
 Upper Cretaceous (Niobrara); Kansas.

Portheus? radiatulus (Cockerell).

- Cockerell, T. D. A. 1919 A, 178, pl. xxxii, figs 6, 7 (Hypsodon).
 Reeside, J. B. 1924 A, 12, pl. iii (Hypsodon).
 Upper Cretaceous (Mancoos), Colorado, New Mexico.
 Upper Cretaceous (Mesa Verde); Wyoming.

Portheus sp. indet.

- Hill, R. T. 1901 A, 328 (Xiphactinus). Lower Cretaceous (Eagle Ford); Texas.
 Hussakof, L. 1908 A, 90 (Portheus). Upper Cretaceous (Niobrara); Kansas.

- Reeside, J B 1924 A, 17, pl m (Hypsodon). Upper Cretaceous (Lewins); Colorado
 Stephenson, L W 1912 A, 128 140 (Portheus sp. indet.). Upper Cretaceous, North Carolina.
 Sternberg C. H 1906 B, 122 (Portheus). Cretaceous (Niobrara), Kansas.

CLADOCYCLUS Agassiz. Type *C. gardneri* Agassiz.

- Agassiz L 1841, Edinb New Philos Jour, xxx, 83
 Hay O P 1902 A, 399
 Bronn, H G 1849 A, 675
 Cockerell, T. D A 1917 A, 61.
 Jordan D S 1923 A, 123.
 Leriche, M 1902 B, 137.
 Storms, R 1891 A, 156
 Toulou, F 1905 A, 65
 Woodward A S 1894 C, 445
 1912 A (1903), 96 (Syn of Ichthyodectes)

Cladocyclus occidentalis Leidy.

- Hay O P 1902 A, 399
 Cockerell, T D A 1919 A, 177 (Syn. ? of *Hypsodon audax*)
 Lambe I M 1904 C, 21, 36, 44
 Tyrrell, J B. 1892 A, 108
 Upper Cretaceous (Colorado), Nebraska or Dakota, Manitoba

ICHTHYODECTES Cope. Type *I. ctenodon* Cope.

- Hay O P 1902 A, 384.
 Andrieu A 1904 A, 309.
 Arltdt, T 1923 A, 499
 Bayer F 1908 A, 3.
 Boulenger G A 1904 D 561 743.
 Cockerell, T D A 1919 A, 179.
 Cope, E D 1880 U, 147.
 Dames W. 1899 I, 155.
 Dean, Guder, Henn 1923 A, 684.
 Dollo, L 1892 F, 181
 Etheridge R 1905 A, 6
 Ridewood, W G 1905 B, 492.
 Storms, R 1891 A, 150.
 Woodward, A S 1901 A, 99
 1912 A, (1903), 93, (1907), 97, text-fig 24
 Zittel and Koken 1911 A, 129
 Zittel and Schlosser 1923 A, 128.
 Zittel and Woodward 1902 A, 95.

Ichthyodectes acanthicus Cope.

- Hay, O P 1902 A, 384
 Hussakof L 1908 A, 75, fig. 39
 Woodward A S 1901 A, 107
 Cretaceous (Niobrara); Kansas.

Ichthyodectes anaides Cope.

- Hay, O P 1902 A, 384.
 Etheridge, R 1905 A, 8.
 Hay, O P. 1903 A, 54.
 Hussakof L 1908 A, 75
 Lambe, L M 1914 H, 402
 Woodward, A S 1901 A, 100.
 Cretaceous (Niobrara), Kansas.

Ichthyodectes cruentus Hay.

- Hay, O P 1902 A 385
 Woodward, A S 1901 A, 107
 Cretaceous (Niobrara), Kansas.

Ichthyodectes ctenodon Cope.

- Hay, O P 1902 A, 385.
 Etheridge, R 1905 A, 8

- Hussakof, L 1908 A, 76
 Woodward, A S 1901 A, 100
 1912 A, (1903) 93
 Cretaceous (Niobrara), Kansas.

Ichthyodectes hamatus Cope.

- Hay O P 1902 A, 385
 Etheridge, R 1905 A, 8
 Hussakof L. 1908 A, 76
 Woodward, A S 1901 A, 107
 Cretaceous (Niobrara), Kansas

Ichthyodectes multidentatus Cope.

- Hay, O P 1902 A, 385.
 1903 A, 57 text-figs 42 43.
 Hussakof, L. 1908 A, 76
 Loomis, F B 1900 A, 243, 245, pl xxiii, fig 9;
 text-figs 8, 9
 Woodward A S 1901 A, 107
 Cretaceous (Niobrara), Kansas.

Ichthyodectes parvus Stewart.

- Hay O P 1902 A, 385
 Upper Cretaceous (Niobrara); Kansas

Ichthyodectes prognathus Cope.

- Hay, O P 1902 A, 385
 Hussakof L 1908 A, 77.
 Woodward, A S. 1901 A, 107
 Upper Cretaceous (Niobrara); Kansas

Ichthyodectes sp. indet.

- Cockerell, T D A. 1919 A, 179 Cretaceous (Niobrara); Montana Cretaceous (Benton); Colorado.
 Hill, R T 1901 A 328 Lower Cretaceous (Eagle Ford), Texas
 Reeside, J B 1923 A, 205 Cretaceous (Dakota?); Colorado
 1924 A, 11 Upper Cretaceous (Mancos); Colorado.

GILLICUS Hay. Type *Portheus arcuatus* Cope.

- Hay, O P. 1902 A 386
 1903 A, 59

- Hennig, E 1912 A, 499.
 Jordan D S 1920 C, 480

- McClung, C. E. 1908 B, 243, fig. 8.
 Woodward, A. S. 1901 A, 99, 101 (Ichthyodectes).
 Zittel and Koken 1911 A, 129.
 Zittel and Schlosser 1923 A, 128.
 Zittel and Woodward 1902 A, 95.

SAUROCEPHALIDÆ Zittel.

- Zittel, K. A. 1890 A (1888), 262.
 Hay, O. P. 1902 A, 385 (Saurocephalum).
 Alth, E. P. 1909 A, 201.
 Ardit, T. 1907 D, 154, 281.
 Boulenger, G. A. 1904 A, 164 (Saurodontidae).
 1904 D, 561 (Saurodontidae).
 Deau, Gudger, Henn 1923 A, 626 (Saurodontidae).
 Goodrich, E. S. 1909 A, 390 (Saurodontidae).

SAUROCEPHALUS Harlan. Type *S. lanciformis* Harlan; not of Agassiz.

- Hay, O. P. 1902 A, 385.
 Agassiz, L. 1845 B, 300.
 Andreac, A. 1901 A, 308 (Saurocephalus, Saurodon).
 1904 A, 309.
 Ardit, T. 1923 A, 499.
 Bayer, F. 1908 A, 3 (Saurodon, Daptimus).
 Bronn, H. G. 1848 B, 1112.
 1849 A, 675.
 Cope, E. D. 1871 S, 608.
 1880 U, 147 ('saurocephale').
 Dames, W. 1899 I, 155 (Saurocephalus, Saurodon, Daptimus).
 Dollo, L. 1892 F, 181 (Saurocephalus, Daptimus).
 Fowler, H. W. 1911 A, 154.
 Gervais, P. 1852 A, explan. pl. lxx.
 1859 A, 522, pl. lxx.
 Gabel, C. G. 1855 A, 104.
 Gray, J. E. 1825 A, 196.
 Harlan, R. 1833 A, 174.
 Hay, O. P. 1899 H, 480.
 1903 A, 48.

- Hennig, E. 1912 A, 490 (Saurodon, Saurocephalus).
 Jordan, D. S. 1923 A, 119, 120.
 Jordan and Evermann 1917 A, 118.
 Mantell, G. A. 1844 A, 665 fig. 136.
 Priem, F. 1908 B, 37.
 Ridewood, W. G. 1905 B, 492 (Saurodon).
 Sauvage, H. E. 1899 C, 150 (Saurodon).
 Schlosser, M. 1901 L, 479 (Saurocephalus, Saurodon).
 Storms, R. 1891 A, 150.
 Woodward, A. S. 1901 A, 111 (Saurodon); 113 (Saurocephalus).
 1912 A (1907), 103 (Saurodon).
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 128.
 Zittel and Woodward 1902 A, 96 (Saurocephalus, Saurodon).

Saurocephalus arapahovinus Cope.

- Hay, O. P. 1902 A, 385.
 Woodward, A. S. 1901 A, 114.
 Upper Cretaceous (Niobrara), Kansas.

Saurocephalus broadheadi (Stewart).

- Hay, O. P. 1902 A, 386.

Gillicus arcuatus (Cope).

- Hay, O. P. 1902 A, 386.
 Hussakof, L. 1908 A, 74.
 Lambe, L. M. 1914 H, 402.
 Upper Cretaceous (Niobrara), Kansas.

- Hay, O. P. 1899 H, 487.
 Jordan, D. S. 1923 A, 120 (Saurodontidae).
 Ridewood, W. G. 1905 B, 492 (Saurodontidae).
 Sauvage, H. E. 1901 A, 5 (Saurodontidae).
 1901 F, 77 ('saurodontidés').
 Schlosser, M. 1917 A, 140 (Saurodontiden).
 Zittel and Woodward 1902 A, 96 (Saurodontidae).

- Dames, W. 1899 I, 156 (Daptimus).
 Stewart, A. 1900 A, 313, pl. xlviii, figs. 1a-1c (Saurodon).
 Woodward, A. S. 1901 A, 113 (Saurodon).
 Upper Cretaceous (Niobrara), Kansas.

Saurocephalus dentatus Stewart.

- Hay, O. P. 1902 A, 386.
 1899 H, 485.
 Woodward, A. S. 1901 A, 114.
 Upper Cretaceous (Niobrara), Kansas.

Saurocephalus goodeanus (Cope).

- Hay, O. P. 1902 A, 385 (Ichthyodectes).
 1903 A, 52 text-fig. 41.
 Hussakof, L. 1908 A, 97 fig. 49.
 Woodward, A. S. 1901 A, 107 (Ichthyodectes).
 Cretaceous (Niobrara), Kansas.

Saurocephalus lanciformis Harlan.

- Hay, O. P. 1902 A, 386.
 Harlan, R. 1833 A, 174, pl. i figs. 1-5.
 Hay, O. P. 1899 H, 480 figs. 1-3.
 1903 A, 50.
 Hussakof, L. 1908 A, 97 (S. arapahovinus a synonym).
 Spillman, W. 1863 A.
 Woodward, A. S. 1901 A, 113.
 Cretaceous (Niobrara), Kansas, Nebraska.

Saurocephalus leanus (Hay).

- Hay, O. P. 1902 A, 386.
 Fowler, H. W. 1911 A, 155, fig. 94.
 Mantell, G. A. 1844 A, 666 fig. 136 (Saurodon).
 Merrill, G. P. 1907 A, 19 (Saurocephalus, Saurodon).
 Woodward, A. S. 1901 A, 111 (Saurodon).
 1912 A (1902), 44 (Saurodon).
 Upper Cretaceous (Navesink-Hornerstown); New Jersey.

Saurocephalus pamphagus Hay.

- Hay, O. P. 1902 A, 386.
 1899 H, 486 fig. 5.
 Hussakof, L. 1908 A, 97.
 Cretaceous (Niobrara), Kansas.

Saurocephalus phlebotomus Cope.

- Hay, O. P. 1902 A, 386.

- Cope, E D 1872 I, 343 (*Saurocephalus*)
 Crook, A R. 1892 A, 120, 123 (*Daptinus*).
 Gorjanovič-Kramberger, D 1891 A, 69, pl n
 fig 5 (*Daptinus* This species?)
 Hay, O P. 1899 H, 485 (*Saurodon*).
 1903 A, 49 text-fig 38
 Hussakof, L. 1908 A 98
 Newton, E T. 1878 B (*Daptinus*)
 Woodward, A S 1901 A 112 (*Saurodon*)
Cretaceous (Niobrara), Kansas Cretaceous,
Hungary ?

***Saurocephalus pygmaeus* (Loomis).**

- Hav, O P 1902 A, 386
 Woodward, A S 1901 A, 113 (*Saurodon*)
Upper Cretaceous (Niobrara); Kansas.

***Saurocephalus stewarti*, nom. nov.**

- Hav, O P 1902 A, 386 (*Saurocephalus ferox*;
 not of Gervais)

- Stewart, A 1898 C, 183, pl xv, pl xvi, figs
 1-3 (*Saurodon ferox*).
 Woodward, A S 1901 A, 113 (*Saurodon ferox*)
Upper Cretaceous (Niobrara); Kansas.

***Saurocephalus xiphirostris* (Stewart).**

- Stewart, A 1898 D, 178 (*Saurodon*)
 Hay O P. 1902 A, 386
 1903 A 51, text-figs 39, 40.
 Hussakof, L. 1908 A, 96.
 Woodward A S 1901 A, 113 (*Saurodon*).
 1912 A (1907), 104 text-fig. 31 (*Saurodon*).
Cretaceous (Niobrara), Kansas.

***Saurocephalus* sp. indet.**

- Hussakof, L. 1908 A, 98 (This genus?). *Upper*
Cretaceous (Niobrara), Kansas
 Tuomey, M 1848 A, 180 ("*Saurocephalus*").
Pleocene, South Carolina

CLUPEIDÆ Bonaparte.

- Bonaparte (L 1831 A, 95.
 Hav O P 1902 A, 390
 Abel, O 1912 F, 441.
 Agassiz, L 1832 A, 142 ("*clupeoiden*")
 Ahlborn, F 1896 B 12 ("*clupeiden*").
 Allis E P 1909 A, 213
 1915 A
 Arldt T. 1907 D, 646.
 1912 A 762 (*Clupeæ*)
 1923 A 500 (*clupeiden*)
 Baudelot, E 1873 A, 97, 192, pl v figs 8 12
 (*Clupea*)
 Belling, D E 1912 A, 60 (*clupeiden*)
 Bonaparte, C L 1833 B, 1201
 1838 B, 132
 Boulenger G A 1901 D 123
 1904 A, 164
 1904 D, 562 736
 1917 B 330
 Bronn, H G 1849 A 780 seq (*Clupeoiden*)
 Budge T W 1896 A, 557.
 Carus V. 1875 A, 577 (*Clupeoiden*).
 Cockrell, T D A 1910 B, 61 ("*clupeid*
fishes")
 1913 B 123
 Cope E D 1871 D, 455
 Creaser, C W 1926 A, 53
 Cunningham, J T 1897 A, 493
 1912 A, 246
 Cuvier, G 1805 A ('*harengs*')
 Dahl K 1910 A, 603
 Dean, Gudger Henn 1923 A, 675
 Dietz, P A 1917 A, 85
 Derjugin K 1910 A, 603.
 Dinnéul A 1856 A 412 ("*clupéides*")
 Eastman C R 1911 B 377 ("*clupeoids*")
 Fitzinger, L J 1873 A, 37 (*Clupea*).
 Ford C 1901 A 34
 Fulton T W 1906 A 77
 Gaupp, E 1898 B, 823 ("*clupeiden*")
 Gill, T 1861 C, 33 ("*clupoids*").
 1885 C, 135
 Gotté, A 1879 A, 128 ("*clupeiden*")
 Goodrich E S 1909 A, 391.
 Gregory, W K 1907 D, 471 ("*clupeoid fishes*").

- Haller, B 1906 A, 233 ('*clupeiden*')
 Hase A 1911 B, 338 ("*clupeoid*")
 Hass C 1873 A, 584 figs. 9-12 (*clupeiden*)
 1873 B, 629 ('*clupeiden*')
 Heckel J 1850 A, 364
 1850 B, 146 (*clupeiden*)
 1856 A, 242
 Hoernes, R 1886 A, 529
 Hoeven J 1822 A (*Clupeæ*)
 Jordan D S 1885 A, 135
 1905 A, 11, 49 564 (*Clupeidæ*), 43 (*Spamio-*
dontidae)
 1907 A, 126, figs 20 21 ("*Clupeoid fish,*
A B C")
 1907 B, 275, 761
 1921 A, 242
 1923 A, 120
 Jordan and Gilbert 1882 A, 262
 Klaatsch H 1890 A, 165 ("*clupeiden*")
 Klm, E F 1868 A ("*clupeen*")
 1879 A 106 (*Clupeina*).
 1884 A, 131, 132, 134, 135, 138, 147, 148,
 153, 156, 164, 230, 242, 248
 1885 A, 109, 114, 146, 161, 189, 215, 242
 1886 A, 206 224, 259, 294.
 Kner, R 1861 A 250 (*Clupeoiden*)
 Kostlin, O 1844 A ("*clupeen*")
 Kolzoff, N K 1896 A, 515, fig 1 (*Clupea*)
 Lemus and Ludwig 1883 A, 756
 Launberg E 1902 A
 Meckel, J F 1825 A ("*clupeen*")
 Meeck A 1916 A, 65.
 Mooche, R L 1911 G, 282
 Norman E W 1926 A
 Palacki, J 1902 B, 141 ("*clupeiden*")
 Pichlau, W 1908 A, 693 ("*clupeiden*")
 Ranther M 1913 A, 1100
 Regan C T 1910 A, 356
 1910 B, 531
 1916 A, 1
 Retterer, E 1905 C 246 (*Clupea*)
 Richardson, J 1836 A, 229 (*Clupeoidæ*).
 Sagemehl, M 1883 A ("*clupeiden*")
 1884 A, 101 ("*clupeiden*")
 Schlosser, M 1917 A, 139, 140, 142 ("*clupeiden*")

- Schubert, R. J. 1906 A, 657.
 Siebenrock, F. 1901 A, 108.
 Stannius, H. 1849 A, 538
 Stemmann, G. 1927 A, 12 ("clupeiden")
 Stephan, P. 1900 A, 301
 Thilo O. 1908 A, 777 ("clupeiden").
 Tims, H. W. 1905 A, 55 ("clupeoids")
 Triaquar, R. H. 1900 C, 508 ("clupeoids").
 Wagner, R. 1843 A ("haringe").

- Wallace, A. R. 1876 A, n, 454.
 Whitehouse, R. H. 1910 A, 426.
 1910 B, 598 ("clupeoids").
 1910 C, 139 (Clupea).
 Woodward, A. S. 1901 A, vii, 5, 128.
 Zittel and Koken 1911 A, 120
 Zittel and Schlosser 1923 A, 125.
 Zittel and Woodward 1902 A, 96.

CLUPEA Linnaeus. Type *C. harengus* Linnaeus.

- Linnaeus, C. 1758 A, 317
 Allis, E. P. 1909 A, 213.
 Aldt, T. 1923 A, 501
 Baudelot, E. 1873 A, 97, 192, pl. v, figs. 8, 12
 Belling, D. E. 1912 A, 50
 Bronn, H. G. 1848 A, 308.
 1849 A, 671.
 Cockerell, T. D. A. 1906 A, 160.
 1910 B, 63.
 1913 B, 123
 Cuvier, G. 1815 A, 109
 Dean, Gudge, Henn 1923 A, 674, 675.
 Derjugin K. M. 1909 A, pl vii, figs 61, 62
 1910 A, 603
 Dietz, P. A. 1914 A, 102
 Duméril, A. 1856 A, 416 ("clupée")
 Frost, G. A. 1925 A, 154, pl xi
 Frvd, C. 1901 A, 15, 34, fig 18
 Fulton, T. W. 1906 A, 77, pls iii B, v.
 Gaupp, E. 1905 D. 914 ("clupeiden").
 Gobel C. G. 1855 A, 109.
 Gill, T. 1885 C, 135
 Goodrich, E. S. 1922 A, 505
 Hammarsten O. D. 1911 A, 677.
 Hasse, C. 1873 A, 584
 Hubbs, C. L. 1926 A, 65.
 Huntsman, A. G. 1919 A, 592
 Inms, A. D. 1904 A, 23, figs 122 125.
 Jordan, D. S. 1885 A 135.
 1905 A, ii 49, 564
 1907 B, 275.
 1910 A, 32
 Jordan and Evermann 1917 A, 15.
 Jordan and Gilbert 1882 A, 264
 Kingslev, J. S. 1925 A, 239, fig. 251.
 Klantsch, H. 1890 A, 255
 Klem E. F. 1879 A, 106

- Klem, E. F. 1884 A, 167, 230, 248, pl. ii.
 1885 A, 114, 189, 215, 229.
 1886 A, 224, 259, fig 26
 Kolzoff, N. K. 1896 A, 515, fig. 1.
 Ledouble, A. F. 1906 A, 551.
 Noorden, C. 1883 A, 235, pl x.
 Meek, A. 1916 A, 67-106.
 Norman, E. W. 1926 A, 407, figs 45, 46, 49-51
 Owen, R. 1866 A, 38.
 Pevsner, V. 1926 A, 304
 Regan, C. T. 1910 A, 357.
 1910 B, 532, fig 1
 1916 A, 2
 Retterer, E. 1905 C 246
 Ridewood, W. G. 1904 A, 58
 1904 B, 215
 1905 B, 453.
 Schlosser, M. 1917 A 145
 Stadtmüller, F. 1926 A, 160, fig 6
 Stannius, H. 1854 A
 Starks E. C. 1905 A, 754.
 Stemmann, G. 1927 A, 12
 Stephan, P. 1900 A, 286
 Tracv, H. C. 1920 A, 444
 Wagner, R. 1843 A
 Weber E. H. 1821 A, 1061
 Wells F. R. 1922 A, 1213 figs 1-11.
 Whitehouse, R. H. 1910 A, 427
 1910 B 597 pl xlvii, fig 5
 1910 C, 139
 Woodward, A. S. 1901 A 146
 Zittel and Koken 1911 A, 120
 Zittel and Schlosser 1923 A, 125
 Zittel and Woodward 1902 A, 96

Clupea? sp. indet.

- Jordan, D. S. 1907 A 126, 127 ("clupeoid fishes
 A B C") Miocene, California

POMOLOBUS Rafinesque. Type *P. chrysochloris* Rafinesque

- Rafinesque, C. S. 1820, Ichth. Obien, 38.
 Cockerell, T. D. A. 1913 B, 124.
 Creaser, C. W. 1926 A, 53.
 Dean Gudge, Henn 1923 A, 696
 Jordan D. S. 1905 A, ii, 50.
 1907 B, 276.
 Jordan and Evermann 1896 A, 424.
 Jordan and Gilbert 1882 A, 265

- Meek A. 1916 A 103.
 Regan, C. T. 1917 A, 296, 297
 Tracv, H. C. 1920 A, 453, pls i-v.

Pomolobus? chicoensis Cockerell.

- Cockerell T. D. A. 1919 A, 180 pl xxiv, fig 5
 Upper Cretaceous (Cluco); California

DIPLOMYSTUS Cope. Type *D. dentatus* Cope.

- Hav O. P. 1902 A, 391.
 Aldt, T. 1923 A, 501.
 Chapman, F. 1918 A, 26 32.
 Cockerell, T. D. A. 1908 C, 173.
 Cope, E. D. 1877 AA, 1.
 Costa, O. G. 1850 Atti. Accad. Pontan, v, 228
 (Histurus, type *H. clatus* Costa).

- Coulon, L. 1903 A, 154
 Dollo, L. 1904 C, 159 (Copeichthys; type *D. dentatus*)
 Eastman C. R. 1911 B, 374
 1912 B, 372, 374.
 Haseman, J. D. 1912 A, 98
 Jordan, D. S. 1905 A, ii, 52, 566

Jordan, D S 1907 B, 278.

1910 A, 23.

1919 B, 388.

1921 A, 243, 244.

Jordan and Gilbert 1920 A, 11.

Ogilby, J. D. 1892, Rec. Austral Mus., n. 26 (Hyperlophus; type *Clupea sprattellides* Ogilby).

Rogers, A. F. 1924 A, 545 (Diplomystus).

Schlosser, M. 1917 A, 144.

Seeley, H. G. 1886 A, 412.

Woodward, A. S. 1892 H 412.

1901 A viii, 139 (Diplomystus), viii, 146 (Clupea)

1922 C, 97, fig. 106.

Zittel and Koken 1911 A, 120.

Zittel and Woodward 1902 A, 96.

Diplomystus analis Cope.

Hay, O P 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Coulon L. 1903 A, 154.

Eastman, C R 1912 B, 378.

Merrill, G P. 1907 A, 10.

Tanner V M 1925, Bull. Univ. Utah, xiv, No 6 8

Woodward, A. S. 1901 A, 139 (Syn. of *D. dentatus*)

Eocene (Green River), Wyoming.

Diplomystus dentatus Cope.

Hay, O P. 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Eastman, C. R. 1912 B, 373, 374, 378.

Holland, W. J. 1910 B, 24, pl. vi.

Hussakof, L. 1908 A, 71.

Jordan D S. 1910 A, 24, pls v, vi.

Lee, Stone, Gale 1915 A, 74, pl. xix.

Tanner, V. M. 1925, Bull. Univ. Utah, xiv, No 6 8

Woodward, A. S. 1901 A, 139.

Eocene (Green River); Wyoming.

Diplomystus pectorosus Cope.

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1908 C, 173.

Eastman, C R 1912 B, 374, 378.

Merrill, G P. 1907 A, 10.

Tanner, V. M. 1925, Bull. Univ. Utah, xiv, No 6, 9 (*D. pectorosus*).

Woodward, A. S. 1901 A, 140 (Syn. of *D. dentatus*)

Eocene (Green River), Wyoming.

Diplomystus theta Cope.

Hay, O P. 1902 A, 391.

Woodward, A. S. 1901 A, 140 (Syn. of *D. dentatus*)

Eocene (Green River); Wyoming

KNIGHTIA Jordan. Type *Clupea humilis* Leidy = *K. eocæna* Jordan.

Jordan D S 1907 A, 136

Hay, O P 1902 A 391 (Diplomystus in part).

Cockerell, T D A. 1908 C, 173.

Cope E D 1870 U 316 *Lithichthys*, type *L. pusillus* = ? *Clupea pusillus* Cope.

Eastman C R 1912 B, 374.

Jordan D. S. 1910 A, 23, 24.

1921 A, 246

Jordan and Gilbert 1920 A, 11.

Knightia alta (Leidy).

Hay, O. P. 1902 A, 391 (Diplomystus)

Cockerell, T. D. A. 1908 C, 173

Eastman, C R 1912 B 374, 378 (Diplomystus)

Hussakof L. 1908 A 78

Jordan D S 1907 A, 137

Merrill, G P 1907 A, 8 (Clupea), 10 (Diplomystus).

Tanner V M 1925 Bull. Univ. Utah, xiv, No 6 10

Zittel and Schlosser 1923 A, 125.

Woodward, A. S. 1901 A, 145 (Diplomystus)

Eocene (Green River), Wyoming

Knightia copei Tanner.

Tanner V M 1925, Bull. Univ. Utah, xiv, No 6, 11 pl. ii fig 6

Eocene (Green River), Wyoming.

Knightia eocæna Jordan.

Jordan D S 1907 A, 136

Hay O P 1902 A, 391 (Diplomystus humilis)

Cockerell T D A 1908 C 173 (*Clupea humilis*, *C. pusilla* "Both preoccupied").

1910 B 63

Cope E D 1870 U, 316 (*Lithichthys pusillus*, "This species")

Dollo, L. 1904 C, 161 (*Copeichthys humilis*)

Eastman, C R 1912 B, 378.

Hussakof and Brant 1919 A, 198 (*K. humilis*).

Jordan D S. 1905 A, ii, 52, fig 41 (Diplomystus humilis)

1910 A 23, 24, pl. vii.

Merrill, G P 1907 A, 8 (*Clupea humilis*); 10 (Diplomystus humilis)

Tanner V M 1925 Bull. Univ. Utah, xiv, No 6 9

Woodward, A. S. 1901 A, 144 (Diplomystus humilis)

Eocene (Green River), Wyoming.

XYNE Jordan and Gilbert. Type *X. qrex* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 25.

Jordan, D S 1920 C, 568.

1921 A, 242.

Jordan and Gilbert 1920 A, 9 (*Xyne*); 11 (Elhmma).

Xyne fitgeri Jordan and Gilbert, J. Z

Jordan and Gilbert 1920 A, 10, pls iv, v.

Jordan, D S 1921 A 243.

Miocene (Monterey), California

Xyne grex Jordan and Gilbert.

- Jordan and Gilbert* 1919 A 25, pl. ix, fig. 1;
pl. x, fig. 2; pl. xi, figs. 2, 3.
Hubbs, C. L. 1924 A, 178
Jordan, D. S. 1920 A, 18, fig. 2.
1921 A, 239, 242, pl. xviii.

- Jordan, D. S.* 1922 D, 272, fig. 2.
1925 B, 40
Jordan and Gilbert 1920 A, 9, pls. i-iii.
Rogers, A. F. 1924 A, 545.
Woodward, A. S. 1921 C, 181
Miocene (Monterey); California

QUISQUE Jordan. Type *Q. gilberti* Jordan.

Jordan, D. S. 1920 C, 571.

Jordan, D. S. 1921 A, 246.

Quisque bakeri Jordan

- Jordan, D. S.* 1922 A, 249, figs. 1, 2.
Miocene (Lower); Texas.

Quisque gilberti Jordan.

- Jordan, D. S.* 1920 C, 571.
1921 A, 245, pl. xx, fig. a
Miocene (Monterey); California

XYRINIUS Jordan and Gilbert. Type *X. houshi* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50.

Jordan, D. S. 1920 C, 560.

1921 A, 244.

Xyrinus barbaræ (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 27, pl. ix, fig. 3
(Ellumna)

Jordan, D. S. 1921 A, 244.

Jordan and Gilbert 1920 A, 11 (Ellumna)
Miocene (Monterey); California.

Xyrinus elmodenæ (Jordan and Gilbert).

Jordan and Gilbert 1919 A 26, pl. xii, fig. 1
(Ellumna)

Jordan, D. S. 1921 A, 241, pl. xix

Jordan and Gilbert 1920 A 11 (Ellumna).

Miocene (Monterey), California

Xyrinus houshi Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50, pl. xxi, fig. 2
Jordan, D. S. 1921 A, 244

Miocene (Monterey); California

ALISEA Jordan and Gilbert. Type *A. grandis* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 28

Alisea grandis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 28, pl. xvii, fig. 3

Jordan, D. S. 1921 A, 245, pl. xxvii, fig. b.

Miocene California

DIRADIAS Jordan. Type *D. aratus* Jordan.

Jordan, D. S. 1924 B, 42

1925 B, 8

Diradias aratus Jordan.

Jordan, D. S. 1924 B, 42, pl. F.

1925 B, 8

1927 B, 89

Miocene (Monterey); California

Diradias fenestralis Jordan.

Jordan, D. S. 1925 B, 9, pl. i

Jordan and Gilbert 1920 A 17, pl. ix (Thysson
velox, in part)

Miocene (Monterey), California

XENOTHRISSA Jordan. Type *X. aphrasta* Jordan.

Jordan, D. S. 1925 B, 10.

Xenothrissa aphrasta Jordan.

Jordan, D. S. 1925 B, 10-49, pl. ii

Miocene (Monterey); California

LEMBICUS Jordan. Type *L. meiklejohni* Jordan.

Jordan, D. S. 1925 B, 42.

Lembicus meiklejohni Jordan.

Jordan, D. S. 1925 B, 42

Miocene (Puente); California

EPELICHTHYS Jordan. Type *E. michaelis* Jordan.

Jordan, D. S. 1925 B, 48.

Epelichthys michaelis Jordan.

Jordan, D. S. 1925 B, 48, pl. 20
Upper Miocene (San Miguel); California.

ENGRAULIDIDÆ Gill.

Gill, T 1872 C, 17.
 Cockerell T D A 1913 B, 123.
 Gunther, A C 1868 A, vii, 383 (Engraulidina)
 Jordan D S 1925 B, 12 (Engraulidæ).

Jordan and Evermann 1896 A, 439 (Engraulidæ)
 Jordan and Gilbert 1882 A, 271 (Engraulidæ).

ENGRAULITES Jordan and Gilbert. Type *E. remifer* Jordan and Gilbert.

Jordan and Gilbert J. Z, in Jordan, D S 1925 B 12.

Engraulites remifer Jordan and Gilbert.

Jordan and Gilbert, J Z, in Jordan, D S. 1925 B, 12, pl. iii
 Miocene (Monterey); California.

DUSSUMIERIIDÆ Gill.

Gill T 1872 B, 17
 Gunther A C 1868 A, 464 (Dussumierinæ).
 Jordan D S 1885 A, 136 (Dussumierinæ)
 1905 A, ii, 52
 1923 A, 121
 1925 B 41
 Jordan and Evermann 1896 A, 417 (Dussumierinæ)
 Jordan and Gilbert 1882 A 263 (Dussumierinæ)
 Jordan and J Z Gilbert 1919 A, 30

Smithites elegans Jordan and Gilbert.

Jordan and Gilbert 1919 A, 30, pl. xxix, fig. 3.
 Duncker, G 1923 A, 39.
 Jordan, D S 1925 B, 42
 1926 B, 221, 223.
 1927 A 191
 1927 B, 97

This supposed species is not, as was originally believed an American fish but is *Clupea elongata* of Steindachner, an Austrian fossil form.

QUÆSITA Jordan and Gilbert. Type *Q. quisquilia* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 30, 31
 Jordan D S 1921 A, 246
 1921 B 462

Quæsita quiescens Jordan.

Jordan D S 1925 B, 11, pl. iii
 Miocene (Monterey), California

Quæsita alhambrae Jordan and Gilbert.

Jordan and Gilbert 1920 A, 43, pl. xxviii.
 Jordan D S 1921 A 247
 Miocene California

Quæsita quisquilia Jordan and Gilbert.

Jordan and Gilbert 1919 A 30, 32, pl. viii, fig 3
 pl x fig 2, pl xvi fig 1
 Jordan D S 1921 A, 246 pl. xxii, fig a
 1925 B, 12
 Miocene (Monterey), California.

Quæsita fragilis Jordan and Gilbert.

Jordan and Gilbert 1920 A 43
 Jordan D S 1921 A 247 pl. xiv b xxiii
 fig b
 Miocene, California

STERNBERGIA Jordan and Gilbert. Type *S. waitei* Jordan and Gilbert.

Jordan and Gilbert J Z in Jordan, D S 1925 B, 41

Sternbergia waitei Jordan and Gilbert.

Jordan and Gilbert J Z, in Jordan, D. S. 1925 B 41, pl. xx
 Miocene (Puate), California

LYGISMA Jordan and Gilbert. Type *L. tenax* Jordan and Gilbert.

Jordan and Gilbert 1919 A 33
 Jordan D S 1921 A 248
 1921 B 462

Jordan, D S 1921 A, 248, pl. xxi, fig a.
 1925 B, 42

Jordan and Gilbert 1920 A 12
 Miocene (Monterey), California.

Lygisma tenax Jordan and Gilbert.

Jordan and Gilbert 1919 A, 33, pl. viii, fig 2;
 pl. xiv fig 1

Superfamily GONORHYNCHOIDÆ, new form.

Carron V 1875 A, 576 (Gonorhynchoidei)
 Gill T 1893 A 131 (Gonorhynchoidei)

Regan, C T. 1909 B, 77 (Gonorhynchoidei, as suborder)

GONORHYNCHIDÆ Richardson.

Richardson J 1856 A, 254
 Hay, O P 1902 A, 392.
 Allen E P 1909 A, 214 (Gonorhynchus).

Aldt T 1907 D, 656.
 1923 A. 504
 Bouleenger, G A 1902 C, 389.

Boulenger, G. A. 1904 A, 165.
1904 D, 572.
Cockerell, T. D. A. 1923 A, 120.
Cope, E. D. 1871 T, 455.
Dean, Gudger, Henn 1923 A, 594, 634.
Dietz, P. A. 1917 A, 84.
Eastman, C. R. 1917 A, 289.
Frost, G. A. 1925 A, 161, pl. xiii (Gonorynchus).
Gill, T. 1885 C, 137.
Gregory, W. K. 1907 D, 471.
Gunther, A. C. 1868 A, 373.
1881 A, 693.
Hubbs, C. L. 1919 B, 65.

Jordan, D. S. 1885 A, 137.
1905 A, ii, 54, 572.
1907 B, 280.
1923 A, 120 (Goniorhynchidae, Notogoneidae).
Meek, A. 1916 A, 63.
Ogilby, J. D. 1911 A, 30.
Ridewood, W. G. 1904 A, 59 (Goniorhynchus).
1905 A, 361.
Woodward, A. S. 1898 H, 413.
1901 A, ix, 6, 271.
Zittel and Schlosser 1923 A, 126.
Zittel and Woodward 1902 A, 100.

NOTOGONEUS Cope. Type *N. osculus* Cope.

Hay, O. P. 1902 A, 392 (Notogoneus); 394 (Procatostomus).
Ardit, T. 1923 A, 504.
Boulenger, G. A. 1904 D, 572.
Cockerell, T. D. A. 1916 A, 899.
1923 A, 120.
Eastman, C. R. 1917 A, 289.
Hassman, J. D. 1912 A, 98.
Jordan, D. S. 1923 A, 120.
Meek, A. 1916 A, 63.
Pruett, F. 1900 A, 846.
1907 C.
Woodward, A. S. 1898 H, 413.
1901 A, ix, 275.
Zittel and Schlosser 1923 A, 126.
Zittel and Woodward 1902 A, 100.

Notogoneus osculus Cope.

Hay, O. P. 1902 A, 392 (*N. osculus*), 394 (Procatostomus constableri).
Cockerell, T. D. A. 1916 A, 899.
Dean and Eastman 1917 A, 623 (Procatostomus constableri a syn.).
Eastman, C. R. 1917 A, 289, fig. 9.
Hussakof, L. 1908 A, 83, fig. 43.
Jordan, D. S. 1905 A, ii, 56, fig. 44.
1907 B, 281, fig. 215.
Jordan and Gilbert 1919 A, 63.
Woodward, A. S. 1901 A, 275.
Eocene (Green River), Wyoming.

Superfamily STOMIATOIDEÆ, new form.

Jordan, D. S. 1923 A, 126 (Enchodontoides Stomatoides).

Regan, C. T. 1909 B, 82 (Stomatoides).
1923 A, 612 ("stomatoid fishes").

GONOSTOMATIDÆ Regan.

Regan, C. T. 1923 A, 613.
Boulenger, G. A. 1904 D, 571 (Gonostomatinae).
Goodrich, E. S. 1909 A, 395 (Gonostomatinae).
Gunther, A. C. 1864 A, 391 (Chauliodontina, in part).

Jordan, D. S. 1905 A, 129 (Gonostomidae).
1921 A, 249.
1923 A, 127.
Jordan and Evermann 1896 A, 578 (Gonostominae).
Regan, C. T. 1923 A, 613.

AZALOIS Jordan and Gilbert. Type *A. angelensis* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 32.
Jordan, D. S. 1921 A, 249.

Azalois angelensis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 32, pl. xv, fig. 2.
Jordan, D. S. 1921 A, 249, pl. xviii, fig. a.
Miocene (Monterey), California.

ENCHODONTIDÆ.

Lydekker, R., in Nicholson and Lydekker 1899 A, 997.
Hay, O. P. 1902 A, 388.
Ardit, T. 1923 A, 516 ("enchodontiden").
Boulenger, G. A. 1904 A, 169.
1904 D, 608.
Cockerell, T. D. A. 1919 A, 183.
Dean, Gudger, Henn 1923 A, 641.
Fowler, H. W. 1911 A, 157.
Gregory, W. K. 1907 D, 488.
Hay, O. P. 1903 G, 691.
Jordan, D. S. 1905 A, ii, 136, 568.
1907 B, 359.
1923 A, 126.

Kruzinga, P. 1924 A, 311.
Loomis, F. B. 1900 A, 297 (Enchodontidae).
Regan, C. T. 1909 B, 82.
1911 B, 120.
1911 D, 320.
Schlosser, M. 1917 A, 139, 140 ("enchodontiden").
Stroemer, E. 1917 A, 23.
Woodward, A. S. 1901 A, 6, 189.
1906 C, 280.
Zittel and Koken 1911 A, 125.
Zittel and Schlosser 1923 A, 130.
Zittel and Woodward 1902 A, 98.

ENCHODUS Agassiz. Type *Esor lewesiensis* Mantell.

- Agassiz L. 1843 B (1835), 55 (feuilleton).
 Hay, O P 1902 A, 388
 Andrae A 1904 A, 309
 Berry E W 1916 A, 356.
 Bronn, H G 1848 A, 459
 1849 A, 676.
 Cope, E D. 1880 U, 147
 Coulon, L 1903 A, 153
 Davis J W 1887 C, 601 (*Eurygnathus* type
E. ferox Davis)
 Dollo, L 1892 F, 183, figs 2-4
 Eastman, C R 1912 B, 377
 Fowler H W. 1911 A, 157
 Gervais, P 1852 A, explan. pl. lxx.
 1859 A, 522 pl. lxx, fig. 3.
 Giebel, C G 1855 A, 104
 Green W R 1913 A, 71
 Hay O P 1903 A, 66
 Heckel, J J 1849 in Russegger's Reisen, II, pt
 II 342 (*Isodus*, type *I. sulcatus* Heckel)
 Hemmg, E 1912 A, 490 (*Euchodus*)
 Kramberger, D G 1881 A, 373 (*Solenodon*, type
S. neocomensis Kramb.)
 1885, Rad Jugoslav Akad., lxxii, 18 (*Hol-*
codon, type *H. lycodon*)
 Krause, P G 1901 A, 120 (*Enchodus*, *Phas-*
ganodus)
 Kruzinga, P 1924 A, 297, 309
 Mantell G A 1844 A, 668
 Marck W 1858 Zeitschr. deutsch. geol. Ges-
 ellsch., v 248 (*Ichthyrocephalus*, type *I. gracilis*
 Marck)
 Piem F 1908 B, 52 pl. i figs 10, 11
 Steinberg C H 1881 B, 4
 Storms R 1891 A, 142, 152.
 1892 A, 1
 Woodward A S 1901 A, 190
 1907 A 193
 1912 A (1902), 55.
 1912 A (1903) 57 pl. xiv; text-figs 13 14
 Zittel and Koken 1911 A, 126.
 Zittel and Schlosser 1923 A, 130
 Zittel and Woodward 1902 A, 98.

Enchodus amicrodus Stewart.

- Hay O P 1902 A 388.
 Green W R 1913 A, 71, 81, 91, pl. x.
 Woodward, A S 1901 A, 203
 Upper Cretaceous (Niobrara), Kansas.

Enchodus anceps Cope.

- Hay O P 1902 A 389
 Woodward A S 1901 A, 203.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus calliodon Cope.

- Hay O P 1902 A, 389
 Woodward, A S 1901 A, 203.
 Upper Cretaceous (Niobrara); Kansas.

Enchodus carinatus (Cope).

- Hay, O P 1902 A, 389
 Woodward, A S 1901 A, 204
 Upper Cretaceous (Niobrara), Kansas.

Enchodus dirus (Leidy).

- Hay O P 1902 A, 390 (Cimolichthys).
 Berry, E W. 1916 A, 357, pl. ix, figs 3-5.
 Green W R 1913 A, 77, 81, 88, pl. vi, figs 3, 4
 Woodward, A S 1901 A, 204
 Cretaceous (Fox Hills); North Dakota:
 (Monmouth); Maryland

Enchodus dolichus Cope.

- Hay, O P 1902 A, 389.
 Green, W R 1913 A, 71, 78, 82, 95, pls. xi-xiv;
 pl. xv, figs 10 12
 Hay O P 1903 A, 72 text-figs 52, 53
 Hussakof, L 1908 A, 71, fig. 38.
 Woodward, A S 1901 A, 204
 Upper Cretaceous (Niobrara), Kansas.

Enchodus ferox Leidy.

- Hay O P. 1902 A, 389 (*E. ferox*, *E. pres-*
idens)
 Fowler H W 1911 A, 158, figs. 95-97 (*E.*
ferox) 161 (*E. presidens*)
 Green W R 1913 A 81
 Hay O. P 1903 A, 68, text-fig. 50
 Hussakof, L 1908 A, 72
 Woodward, A S 1901 A, 204 (*E. ferox*), 205
 (*E. presidens*)
 Upper Cretaceous (Navesink Woodbury,
 Manasquan?), New Jersey.

Enchodus gentryi (Cope).

- Hay O P 1902 A, 389
 Fowler H W 1911 A, 163.
 Hussakof L 1908 A, 72
 Woodward, A S 1901 A 615 (*Phasganodus*)
 Moccasin (Kukwood), New Jersey

Enchodus gladiolus Cope.

- Hay O P 1902 A, 389
 1903 A, 75, text-figs 56, 57.
 Hussakof, L 1908 A, 72
 Woodward, A S 1901 A, 204.
 Cretaceous (Niobrara), Kansas.

Enchodus oxytomus Cope.

- Hay O P 1902 A 389
 Fowler, H W 1911 A, 164.
 Woodward, A S 1901 A, 204
 Upper Cretaceous (Navesink); New Jersey.

Enchodus parvus Stewart.

- Hay, O P 1902 A 389
 Woodward A S 1901 A, 204
 Upper Cretaceous (Niobrara), Kansas.

Enchodus petrosus Cope.

- Hay, O P 1902 A, 389
 Green, W. R 1913 A, 75, 81, 82, pls. i-v; pl.
 vi, figs 1 2, pls. vii-ix; pl. xv, figs. 14, 15
 Hay, O P. 1903 A, 70, text-figs 51, 59, 62.
 Hussakof L. 1908 A, 73.
 Woodward, A. S. 1901 A, 205
 Cretaceous (Niobrara), Kansas.

Enchodus sœvus Hay.

Hay O P 1903 A, 76, text-figs 58, 60, 61, 63, 64 65

Green, W R 1913 A, 73, 82, pls. viii, ix (Syn of *E. petrosus*)

Hussakof L 1908 A, 73

Zittel and Schlosser 1923 A 130, fig 227
Cretaceous (Niobrara), Kansas

Enchodus semistriatus Marsh.

Hav O P 1902 A 389

Fowler, H W 1911 A, 162

Woodward A S 1901 A, 205

Upper Cretaceous (Navesink?) New Jersey

Enchodus serrulatus Fowler.

Fowler, H W 1911 A 162, fig 98. Upper Cretaceous (Manassquan), New Jersey

Enchodus shumardi Leidy.

Hav, O P 1902 A, 389 (E shumardii)

Green, W R 1913 A 71, 82 104 pl xi, figs 1-13 (E shumardii).

Lambe L M. 1904 C, 21, 36, 44

McInnes, W. 1913 A, 67

Merrill, G P. 1907 A, 11.

Woodward A S 1901 A, 205.

Cretaceous (Niobrara) Manitoba

Enchodus tetræcus Cope.

Hav, O P 1902 A, 389.

Fowler, H W 1911 A, 163, fig 99

Hay, O P 1903 A 74, text-figs 54, 55

Hussakof L 1908 A 73

Woodward A S 1901 A, 205

Upper Cretaceous (Navesink?), Delaware, New Jersey

Enchodus sp. indet.

Hav O P 1902 A, 389.

Cockerell, T D A 1919 A 184 Upper Cretaceous (Colorado shale) Montana

Fowler H W 1911 A, 164 165, figs 100-102 (Various undetermined species from New Jersey)

Gulley J W 1926 F 192, pl lxxi

Upper Cretaceous (Ripley) Tennessee

TETHEODUS Cope. Type *T. pephredo* Cope.

Hav O P 1902 A 389

Klaus P G 1901 A 120

Woodward, A S 1901 A 190 (Syn? of *Enchodus*)

1912 A (1902) 55 (Syn? of *Enchodus*)

Tetheodus pephredo Cope.

Hav O P 1902 A, 389

Woodward A S 1901 A 205.

Cretaceous (Niobrara), Kansas

HALECODON Cockerell. Type *H. denticulatus* Cockerell.

Cockerell T D A 1919 A 183

Halecodon denticulatus Cockerell.

Cockerell T D A 1919 A 183 pl xxxv fig 7

Upper Cretaceous (Apsch), Wyoming

Superfamily OSTEOGLOSSOIDÆ, new form.

Gill, T 1893 A 130 (Osteoglossoida).

Jordan D S 1923 A, 123 (Osteoglossoida).

Regan C T 1909 B 77 (Osteoglossoida)

OSTEOGLOSSIDÆ Bonaparte.

Bonaparte, C L 1846 Cat Met Pesci Europei, 7

Hav, O P 1902 A, 393

Allis E P 1939 A 214 (Osteoglossum)

Aldt T 1907 D 670

1912 A 679, 716

1923 A, 498 (osteoglossiden')

Brudelot E 1873 A 110 (Osteoglossum).

Boulenger G A 1901 C, 514

1904 A 164

1904 D 555, 749

1917 B 330

Bridge T W 1896 A 644

Carus V 1875 A 576 (Osteoglossoida).

Cockerell T D A 1910 D, 111.

1911 D 39

1913 B 125

Cope E D 1872 C, 329, 333

Dean, Gudger, Henn 1923 A 693

Eastman, C R 1917 A, 288.

Frost, G A 1925 A. 159 pl xii.

Gill, T 1885 C, 142

Goodrich, E S. 1909 A, 390.

Gregory, W. K. 1907 D, 469.

Günther A C 1866 A 377

1881 A, 693

Jordan, D S 1885 A 143

1905 A, ii, 56 584

1907 B 282, 379

1923 A 123

1925 A 232 (Osteoglossidae Phareodontidae)

Leunis and Ludwig 1883 A 755

Loomis F B 1921 A 194

Meeh A 1916 A, 59

Rauther, M 1913 A 1100

Regan, C T 1910 A, 356

1916 B 546

Ridewood W G 1904 A, 61.

1905 C 252

Schlösser M 1917 A 144

Sebenrock F. 1901 A, 108

Stenmann G 1927 A, 81 ('osteoglossiden')

Tanner V M 1925, Bull. Univ. Utah, xiv,

No 6 7 (Phareodontidae)

Terra P 1911 A 209

Wallace, A R 1876 A, ii, 454

Woodward, A S 1898 B, 117

Woodward, A S. 1899 C, 361.
1901 A, vii, 4, 73.
1923 B, 297.

Zittel and Koken 1911 A, 121.
Zittel and Schlosser 1923 A, 126
Zittel and Woodward 1902 A, 97

PHAREODUS Leidy. Type *P. acutus* Leidy.

Hay, O P. 1902 A 393.
Allis E P. 1923 A, 46 (Osteoglossum).
Ardt, T 1923 A, 498.
Boulenger, G A 1901 C, 515 (Dapedoglossus).
1904 D, 557 (Dapedoglossus).
Cockerell, T D A 1910 D, 111 (Dapedoglossus).
Eastman, C R 1917 A, 288 (Dapedoglossus).
Haseman, J D 1912 A, 98 (Dapedoglossus).
Jordan D S 1905 A, ii, 56, 586
1907 B, 282
1923 A, 123.
1925 A, 232.
Matthew, W D 1915 A, 298 (Dapedoglossus).
Meek, A 1916 A 59 (Dapedoglossus).
Seeley, H G 1886 A, 412 (Dapedoglossus).
1899 C, 361 (Dapedoglossus).
Woodward, A S 1901 A, 74 (Dapedoglossus).
Zittel and Woodward 1902 A, 97.

Phareodus acutus Leidy.

Hay O P 1902 A, 393.
Cockerell, T D A. 1908 C, 175.
Jordan D S 1907 B, 283.
1925 A 233
Woodward, A S 1901 A, 75 (Dapedoglossus).
Middle Eocene (Bridge), Wyoming.

Phareodus æquipinnis (Cope).

Hay, O P 1902 A, 393.
Cockerell T D A 1908 C, 175.
Hussakof, L 1908 A, 87
Jordan D S 1907 B, 283
Merrill, G P 1907 A, 9 (Dapedoglossus).

Woodward, A S. 1901 A, 75 (Dapedoglossus).
Lower Eocene (Green River), Wyoming.

Phareodus encaustus (Cope).

Hay, O P 1902 A, 393
Cockerell, T D A 1908 C, 175.
Hussakof L 1908 A, 87.
Jordan, D S 1905 A, ii, 57.
1907 B, 283.
Woodward, A S 1901 A, 76 (Dapedoglossus).
Lower Eocene (Green River); Wyoming.

Phareodus testis Cope.

Hay O P 1902 A, 393.
Boulenger, G A 1904 D, 556, fig 335 (Dapedoglossus).
Cockerell T D A 1908 C, 175.
1911 D, 39
Eastman, C R 1917 A, 288 (Dapedoglossus)
Hussakof and Bryant 1919 A, 198
Jordan D S 1905 A, ii, 56, fig 45
1907 B, 283, fig 216
1925 A, 232, 233
Merrill, G P 1907 A, 9, 10 (Dapedoglossus).
Tanner V M 1925, Bull Univ Utah, xiv,
No 6, 7 (Syn of *P. acutus*)
Woodward, A S 1901 A, 75 (Dapedoglossus).
Lower Eocene (Green River); Wyoming

Phareodus? sp indet.

Jordan, D S 1907 A, 126 Upper Cretaceous
(Chico), California

EURYCHIR Jordan. Type *E. lindleyi* Jordan.

Jordan D S 1925 A, 232

Eurychir lindleyi Jordan.

Jordan, D S 1925 A, 232, pls xxii, xxiii Upper
Cretaceous (Niobrara), Kansas

Superfamily SALMONOIDÆ, new form.

Frost G A 1925 A 156 (Salmonoidæ)
Jordan D S 1905 A ii, 41, 61 (Salmonoidæ)

Jordan D. S 1907 B, 268 (Salmonoidæ).
1923 A, 124 (Salmonoidæ)

SALMONIDÆ Bonaparte.

Bonaparte, C. L 1831 A, 95, 115
Hay O P. 1902 A, 392
Agassiz L 1832 A, 142 ("salmoniden")
1856 C, 63.
Agassiz and Vogt 1845 A ("salmones")
Allis, E P 1909 A, 201
Ardt T 1907 D, 680
1912 A, 716, 762.
1923 A 503 ("salmoniden")
Billing, D E 1912 A, 60 ("salmoniden").
Bonaparte, C L 1833 B, 1201.
1838 B, 132
Boulenger, G. A. 1895 B, 299.
1904 A, 164
1904 D, 565, 754.
1917 B, 329, 330.
1917 D, 1043.

Blaus, H 1906 A 173 ("salmoniden").
1919 A, 30
Bridge, T. W 1896 A, 550
Brohl, E 1909 A, 372 ("salmoniden").
Brown, H G 1849 A, 780 seq (Sa mones).
Bruch, C 1862 A.
Carus, V 1875 A, 573 (Salmonoidæ)
Carus and Engelmann 1861 A, 1798
Cockerell, T D A 1913 B, 125
Collings, W. E 1895 B 290
Cope, E D 1871 T, 455
Cunningham, J T 1886 A, 222.
1897 A, 493
1912 A, 246, 265.
Cuvier, G. 1805 A ("saumons").
Dahl, K 1909 A 765.
Dawson, J W. 1894 C, 267.

- Dean, Gudge, Henn 1923 A, 699.
 Dietz, P A 1917 A, 85.
 Derjugin, K 1910 A, 586 (Salmo).
 Duméril, A 1856 A, 445 ("salmonides").
 Ebner, V. 1896 A, 127 ("salmoniden").
 Fitzinger, L J 1873 A, 37 (Salmones).
 Fulton, T W. 1906 A, 76.
 Fryd, C 1901 A, 33.
 Gaupp, E 1898 B, 823 ("salmoniden").
 1903 A, 119, fig 1 (Salmo).
 1911 A, 414 (Salmo).
 Gill, T 1875 B, 252
 1885 C, 146
 Goette, A 1879 A, 128 ("salmoniden").
 Goodrich, E S 1909 A, 393.
 Gregory W. K 1907 D, 471.
 Haller, B 1906 A, 233 ("salmoniden").
 Hase, A. 1907 A 633 ("salmoniden").
 Hoek, P. P C 1910 A, 432 ("zalmen").
 Hoernes, R 1886 A, 530.
 Hubbs, C L 1926 A, 73 ("salmonoids")
 Huxley T H 1855 A, 84.
 1859 H, 38
 1883 B, 564, 567
 Jaekel, O 1906 A, 24, fig 16 (Salmo).
 Johnston, H W 1905 A, 63 ("salmon").
 1907 A, 54 ("salmon").
 1910 A, 21 ("salmon").
 Jordan D S 1885 A, 146.
 1905 A u 61, 590.
 1907 B, 285
 1923 A, 124.
 Jordan and Gilbert 1882 A, 288
 Klantsch, H 1890 A, 155 ("salmoniden").
 Klein, E F 1868 A ("salmonen")
 1894 A 135, 138, 147, 148, 153, 169, 199, 228,
 246, 248
 1885 A, 109, 130, 145 188 212, 241
 1896 A, 224, 258 292
 Kner, R 1861 A, 244 (Salmonides)
 Kolzoff, N K 1896 A, 516
 Kostlin, O 1844 A ("salmonen").
 Krause P G 1901 A, 120 ("salmoniden")
- Leunis and Ludwig 1883 A, 747.
 Lonnberg, E. 1902 A (Salmones).
 Macdonald, W. 1863 A, 63.
 McMurrich, J. P 1910 A, 23
 Mayhoff, H. 1914 A, 403 ("salmoniden")
 Meckel J. F 1825 A ("lachse")
 Meek, A 1916 A, 112
 Miall, L C 1872 A, 26.
 Milne, J. A 1913 A, 572 ("salmon").
 Muller, J 1841 B clui ("salmonen").
 1845 A 102 136 (Salmones).
 Owen, R 1868 A, 907.
 Pouchet, G 1878 A, 59 (Salmones).
 Pichlar, W 1908 A, 693 ("salmoniden").
 Rautner, M. 1913 A, 1100
 Regan, C T 1910 A, 356
 1913 D, 289
 1914 A, 405
 Richardson J 1836 A, 137 (Salmonioidea).
 Ridewood, W G 1904 A 58
 Ryder, J 1886 A, 72 ("salmonoids").
 Sagemehl M 1884 A 101 ("salmoniden")
 Scheel C 1893 A, 1 ("salmoniden").
 Shepherd, C E. 1914 A, 267
 Siebenrock F 1901 A, 106
 Stannius, H 1854 A (Salmones)
 Starks, E C 1904 B, 601 ("salmonoids").
 Stephan, P 1900 A, 301 ("salmones").
 Szily A 1907 A, 347 ('forelle')
 Teria, P 1911 A, 210
 Trouessart, E L 1906 A, 212.
 Turnbull H 1909 A, 1095, 1119, 1175.
 Vogel, R 1909 A, 499 ("salmoniden").
 Wallace A R 1876 A, u, 447.
 Wagner, R 1843 A ("lachse")
 Wilcox M A 1899 A, 153
 Williamson, W C 1851 A, 694
 Woodward A S 1901 A viii, 5, 159
 1922 C 98
 Zittel and Koken 1911 A, 121
 Zittel and Schlosser 1923 A, 126
 Zittel and Woodward 1902 A 97.

SALMO Linn. Type *s. salar* Linn.

- Linnæus, C 1758 A, 308.
 Abel, O 1919 A, 46, figs 20, 22.
 Agassiz and Vogt 1845 A, 1-196, pls A-O.
 Allis, E P 1898 A, 428
 1898 B, 95.
 1905 A, 452, figs 24-26.
 1909 A, 214.
 1919 C, 255.
 1922 B, 201.
 Baudelot, E 1873 A, 97.
 Beer, G R 1924 C, 316, figs 27-29.
 1926 A 297, figs 50-61, 115, 121, 132.
 Belling, D E 1912 A, 50.
 Boker, H. 1913 A, 361, pls. xxiv-xxvii; text-figs.
 1-10
 Born J 1827 A, 190.
 Boulenger, G. A 1895 B, 299.
 1904 D, 567, 754.
 1917 D, 1041.
 Braus, H. 1906 A.
 Bronn, H G. 1848 B, 1109.
 Bruch, C. 1862 A.
 Carlsson, A. 1894 A, 217, 220.
 Carter, O 1875 A, 70 pl iv, figs 5-9
 Cockerell, T D A 1911 F, 370
 1913 B 125
 Cockerell and Allison 1909 A, 158, fig 1
 Collinge W E 1895 B, 290, pl. xx, figs 13-15
 Cope, E D 1891 N 21, fig 9
 Cunningham, J T. 1886 A, 221
 1912 A, 241.
 Cuvier G 1815 A, 115
 Dahl, K 1909 A, 766, fig 4
 Dean, Gudge, Henn 1923 A, 699
 Derjugin K. 1909 A, pl. vi, figs 56-58
 1910 A, 609
 Dietz P. A 1914 A, 102
 Duméril, A 1856 A, 446.
 Edgeworth, F H 1926 A, 185, figs. 19, 20.
 Esdaile, P C. 1912 A
 1913 A, 1 ("salmon").
 Fraas, E. 1913 D, lxii ("lachse").
 Frost, G. A 1913 A, 221
 Fulton, T. W 1906 A, 76, pl. u B.
 Gaupp, E. 1899 A, 1026, figs. 1, 2 ("lachs").
 1903 A, 119, fig 1.

- Gaupp E 1905 D, 919.
1906 B, 661.
1911 A, 414.
- Gegenbaur, C 1866 A, 122 ("lachse").
1867 B 419 pl ix, fig. 16.
- Gebel, C G 1855 A, 108.
- Gill, T 1885 C, 158
- Goetsch W 1920 A, 13, 15.
- Goette A 1879 A, 134.
1901 A, 559.
- Goodrich, E S 1904 A, 478
1906 A, 347.
1909 A, 516, figs
- Haller, B 1906 A, 235, pl xvi, figs. 1-7; pl xvii, figs 13-16, text-figs 1-iv.
- Harrison R G 1893 A, 249.
1894 A, 59.
- Hase A 1907 A.
- Heckel, J 1850 A, 364
1850 B, 146.
- Helpmann A 1897 A, 68, 69, 288.
- Heronimus, C 1911 A 199, figs 6-8.
- Hill C 1899 A, 356, figs 1-10.
1900 A 402, pls xxxiii, xxx.
- Hoek P P C 1909 A, 485, pls. 1, ii.
1910 A, 432
- Holland H 1864 B, 249 ("saumon").
- Hutton J A 1909 A pls i-xiv.
1910 A, pls i-xxx.
- Huxley T H 1859 H, 37.
1883 B 568
- Finkel O 1906 A, 24, fig 16.
- Johnston H W 1905 A pls i-vi ("salmon").
1907 A, 54 pls i-v ("salmon").
1910 A 21 ("salmon")
- Jordan D S 1885 A, 158
1905 B, 547.
- Jordan and Evermann 1917 A, 14
- Jordan and Gilbert 1882 A, 309
- Kesteven H L 1922 A 315
- Knecht, J E 1919 A
1921 A, 427.
- Kingsley J S 1894 A, 639.
1925 A 105 225, figs 113, 236
- Klein, E F 1879 A, 69 70, 107.
1884 A, 132, 148, 156 169, 225, 242, pl ii
1885 A, 212, 241
1886 A, 224, 258, 292.
- Kner R 1861 A, 245
- Kestlin O 1844 A.
- Kolzoff, N K 1896 A, 515, fig 2.
- Lebedinsky, N G 1917 A, 315.
- Lewis and Ludwig 1883 A, 748.
- Loey W A 1894 A, 179
- McMurrich, J P. 1883 A, 634.
- Masterman, A T 1913 A, 1-111, pls i-iv ("salmon")
- Meeke, A 1916 A, 112.
- Mivart, St G 1879 B, 540, fig 10 ("salmon").
- Noorden C 1883 A, 235, pl x
- Norman E W. 1926 A, figs. 41, 52.
- Owen R 1845 B, 143, pl. xlviii, fig. 9.
1888 A, 907.
- Paget and Savidge 1916 A, 258 ("salmon").
- Parke W K 1879 C, 341 ("salmon").
- Parker and Haswell 1897 A, 183, figs 806-822
- Pehrson T 1922 A, 9
- Pycklau, W 1908 A, 693, pls xxv, xxvi.
- Rautner, M 1913 A, 1065 figs 12-14, 28
- Reynolds S H 1897 A, 87, 95, 131.
- Richardson, J 1836 A, 137
- Sagemehl, M 1884 A 78 ("lachse").
- Schaumslund, H 1906 A
- Schlepp W 1904 A, 334
- Schmalhausen, J. J 1912 A, 545, 570, pls. xvi, xvii
1913 C, pls ii, v.
- Schmid-Monnard, C 1883 A, 101, pls vi, vii.
- Seewitzoff, A N 1926 D 87, figs. 17, 18
- Sebenrock F 1901 A, 108
- Sorensen, W 1897 A, 180
- Staunius H 1849 A, 538
1854 A
- Stohr, P 1882 A, 76, pls ii, iii
- Swamerton H W 1905 A, 364, pl xxiii.
- Taylor H F 1916 A 298.
- Thilo O 1896 A 342 ("lachse")
1913 A, 293 ("lachse")
- Tichonow A 1885 A, 533
- Furnbull H 1909 A, 1095, 1119 1175, fig.
- Uhlmann, E 1921 A, 303, 317, 324
- Vogel R 1909 A 505
- Wagner, R 1843 A
- Wallace, A R 1876 A, ii, 447
- Walther, J 1882 A, 75 ("lachse")
- Willcox, M A 1899 A, 153
- Williamson, W. C 1851 A, 694
- Wmslow G M 1898 A 184
- Zittel and Koken 1911 A, 121.
- Zittel and Schlosser 1923 A, 126, fig 23.

Salmo salar Linn.*Linnæus, C* 1758 A, 308

Allis E P 1909 A, 214

Boulenger, G A 1917 D, 1041

Cockerell T D A 1913 B, 125

Collinge, W E 1895 B, 290, pl xx, fig. 15.

Dawson, J W 1894 C, 267 (This species?)

Esdaile, P C 1912 A, 6 pls

1913 A, 1 ("salmon").

Frost, G A 1925 A, 157, pl xii.

Gill, T. 1885 C, 158, fig 99

Harrison, R G 1893 A, 249, pls xvi-xviii.

Jordan, D S 1885 A, 158, fig 99

1905 B, 546 ("salmon")

Jordan and Evermann 1896 A, 487.

Jordan and Gilbert 1882 A, 311.

Lambe, L M 1904 C, 39, 44

McMurrich, J P 1910 A, 23

Milne, J A 1913 A, 579, figs 99-100

Reynolds S H 1897 A, 87, figs 9-11

Richardson, J 1836 A, 145.

Schlepp, W. 1904 A, 334, figs.

Shepherd, C E 1910 B, 295, pl. i, fig. 14

1914 A, 267.

Stannius, H. 1854 A, 62

Stohr, P. 1882 A, 76, pls ii, iii

Willcox, M A 1899 A, 151.

Recent; North Atlantic, ascending rivers
Pleistocene (Late); Québec.

ONCORHYNCHUS Suckley. Type *Salmo gorbushka* Walbaum.

- Suckley, G* 1861, Ann Lye Nat Hist N Y, vii, 312
Arditt, T 1923 A, 503, 504.
Boulenger, G A 1917 B, 329.
Cockerell, T. D A 1913 B, 125.
Cunningham, J T 1886 A, 221
 1912 A, 310
Dean, Gudger, Henn 1923 A, 630, 631
Frost, G A 1925 A, 158, pl xii
Gilbert, C H 1913 A, 1
 1914 A, 1-22.
Gill, T 1885 C, 151
Jordan, D S 1885 A, 151.
 1905 A, n, 68, 583
 1907 A, 137
 1919 B, 299
Jordan and Gilbert 1882 A, 304
Jordan and Evermann 1896 A, 474
McMurrich, J P 1910 A, 24
 1913 A, 9
Meek, A 1916 A, 126
Milne, J A 1913 A, 572
Regan, C T 1914 A, 407

Oncorhynchus tschawytscha (Walbaum).

- Walbaum J J* 1792, Arted. Piscum, 71 (*Salmo*)
Creaser C W. 1926 A, 21, 37.
Gilbert C H. 1913 A, pls iv-vii; pl viii, fig 15 pl ix, pl x, fig 18, pl xiv, fig 25
 1914 A 11, pls iv-x, xiv
Gill, T. 1885 C, 152, fig 98
Hav, O P 1927 D, 241
Jordan D S 1885 A, 152, fig 98
 1905 A n, 69, figs
 1907 A, 137, figs 27-29 (This species?)
Jordan and Gilbert 1882 A, 306 890 (*O. tschawytscha*)
Jordan and Evermann 1896 A, 479.
McMurrich J P 1910 A, 24
 1913 A, 17 pls v, vi, text-figs 4 5
Milne J A 1913 A, 572, 594 figs 95, 96 102 109-111
 Recent California to Alaska and China
 Pleistocene (Equus beds) Oregon

CRISTIVOMER Gill and Jordan. Type *Salmo namaycush* Walbaum.

- Gill and Jordan* 1878, Bull U S Nat Mus, vii 69
Dean, Gudger Henn 1923 A, 558
Hussakof L. 1916 B, 685
Jordan, D S 1905 A, n, 114, 565
Jordan and Evermann 1896 A, 504
***Cristivomer namaycush* (Walbaum).**
Walbaum, J J 1782, Arted. Piscum, 68 (*Salmo*)
Allis, F P 1898 A, 434 (*Salvelinus*).
Baker, F C 1920 A, 282, 393

- Gill, T* 1885 C 167 (*Salvelinus*)
Hav O P 1923 A 112 344 (*Christivomer, error*)
Hussakof L. 1916 B, 685
Jordan D S 1905 A, n 114 fig 78
Jordan and Evermann 1896 A, 504
Meek A 1916 A 134
Regan C T 1914 A 408, fig 3 (*Salvelinus*)
Richardson J 1836 A, 179 pl lxxx (*Salmo*)
 Recent, New England to Alaska in the larger lakes Pleistocene (Sangamon) Wisconsin

RHABDOFARIO Cope. Type *R. lacustris* Cope.

- Hav, O P* 1902 A, 392
Dean Gudger Henn 1923 A, 628
Jordan, D S 1919 B, 356
Woodward A S 1901 A, 160

Rhabdofario lacustris Cope.

- Hav O P* 1902 A, 392
 1927 D, 265, 268

- Jordan D S* 1905 A n 62, 118
 1907 B, 286
 Pleistocene (Idaho), Idaho

Rhabdofario sp. indef.

- Hav, O P* 1927 D 104 265 Pleistocene, Idaho
Russell I C 1902 A 56 Pleistocene (Idaho) Idaho

CYCLOLEPIS Gemitz. Type *C. agassizi* Gemitz.

- Gemitz H B* 1868 A, 39, pl n figs 1, 2
Cockerell T D A 1919 A, 181
Jordan D S 1919 B, 349

Cyclolepis stenodinus Cockerell.

- Cockerell T D A* 1919 A 181 pl xxxv, fig 16
 Upper Cretaceous (Fox Hills), Wyoming

LEUCICHTHYOPS Cockerell. Type *L. vagans* Cockerell.

- Cockerell T D A* 1919 A, 180

Leucichthyops vagans Cockerell.

- Cockerell, T D A* 1919 A, 180, pl xxxiv, fig 13, pl xxxv, figs 1-15

- Reeside J B* 1923 A 205 (*Leucichthyops*)
 1924 A, 12 (*Leucichthyops*), pl m (*Leucichthyops*).
 Upper Cretaceous (Colorado group) Colorado, Wyoming

ARGENTINIDÆ Gill.

- Gill, T* 1885 C, 144
Cockerell, T D A 1913 B, 126
Dean, Gudger, Henn 1923 A, 633 (*Argentinnæ*)

- Gill, T* 1862 B, 14 (*Argentinnæ*)
 1893 A, 131
 1893 B, 112.

Goode and Bean 1895 A, 51.
 Jordan, D. S. 1885 A, 145.
 1905 A, n, 122.
 1923 A, 124 (Argentinae, Osmeridae).
 Jordan and Evermann 1896 A, 519.

Jordan and Gilbert 1822 A, 288 (Argentinae).
 Meek, A. 1916 A, 138 (Argentinae).
 Regan, C. T. 1911 D, 320.
 1913 D 289.

MALLOTUS CUVIER. Type *Clupea villosa* Gmelin=*Salmo grandlandicus* Bloch.

Hav, O. P. 1902 A, 392.
 Auldt, T. 1923 A, 503.
 Bronn, H. G. 1848 A, 700.
 Cunningham, J. T. 1886 A, 221.
 Dean Gudger Henn 1923 A, 688.
 Duméril A. 1856 A, 448 ("capelan").
 Giebel, C. G. 1855 A, 109.
 Gill, T. 1862 B, 15.
 1885 C 145.
 Hocutt, R. 1886 A, 530.
 Jordan and Evermann 1917 A, 130.
 Jordan and Gilbert 1882 A, 291.
 Leunis and Ludwig 1883 A, 751.
 Stannius H. 1854 A.
 Wallace, A. R. 1876 A, n 447.
 Woodward, A. S. 1901 A 160.

Mallotus villosus (Müller).

Hav, O. P. 1902 A 392.
 Agassiz, L. 1848 B, 42.
 Ann, H. M. 1897 A, 21, 22, 23.
 1901 C 53, 54.
 Baker, T. 1920 A 182.
 Billings, E. 1856 A 337, 345.
 Boulenger, G. A. 1904 D 568, fig. 344.
 Brown, H. G. 1849 A, 672.
 Clapp, T. G. 1908 A, 522.
 Coleman, A. P. 1901 B, 131.
 1901 C 224.
 Cunningham, J. T. 1886 A, 224.

Dawson, G. M. 1857 A, 408, 415.
 1863 F, 916.
 Dawson, J. W. 1872 B, 402.
 1872 C 57, 98.
 1894 C, 31 58 203, 265, 266, pl. viii, fig. 1.
 Deek, W. 1913 A, 84.
 Fraser, C. M. 1915 A, 116, pl. x, figs 36-39.
 Gould, A. A. 1848 A, 64.
 Haug, E. 1911 A 1876.
 Hav, O. P. 1923 A, 489.
 1927 D 283.
 Johnston, W. A. 1917 A, 25 ("Mallotus").
 Jordan, D. S. 1885 A, 145.
 1905 A n 126, fig 85.
 Jordan and Gilbert 1882 A, 291.
 Lamb, L. M. 1904 C, 39, 44.
 1914 F, 298.
 Mantell, G. A. 1844 A, 670.
 Meek, A. 1916 A 138.
 Owen, R. 1860 E 150.
 Packard, A. S. 1867 A 244.
 Richardson, J. 1836 A, 187 [*Salmo* (*Mallotus*)].
 Wiman, C. 1913 A, 153.
 Woodward, A. S. 1901 A, 161.
 Zittel and Koken 1911 A, 121.
 Zittel and Schlosser 1923 A, 126.
 Zittel and Woodward 1902 A, 97.
 Recent Arctic Ocean south to Cape Cod and
 Alaska. Pleistocene, Canada, Maine. Pleistocene?
 Greenland.

OSMERUS LINNAEUS. Type *O. cperlanus* Linnaeus.

Linnaeus, C. 1858 A, 310 (Osmeri).
 Auldt, T. 1923 A, 503.
 Boulenger, G. A. 1917 D, 1044.
 Cockerell, T. D. A. 1913 B, 126.
 Dean Gudger Henn 1923 A, 693.
 Frost, G. A. 1925 A, 158, pl. xii.
 Fyfe, C. 1901 A, 33, fig.
 Gill, T. 1862 B, 15.
 1885 C 144.
 Goodrich, E. S. 1909 A, 394, 513.
 Gunther, A. C. 1866 A, 166.
 Hammarsten, O. D. 1911 A, 669, pl. ix, figs. 2,
 3 text-figs 1, 2, 4, 11.
 Jordan, D. S. 1885 A, 144.
 1905 A, n 123, 127.
 Jordan and Evermann 1896 A, 522.
 Jordan and Gilbert 1882 A, 292.
 Klein, E. F. 1885 A, 212.
 Leunis and Ludwig 1883 A, 751.
 Masterman, A. T. 1913 B, 113, pls. i, ii.
 Meek, A. 1916 A, 140.
 Shepherd, C. E. 1910 B, 292, pl. i, fig. 13.
 Stannius, H. 1854 A.

Osmerus mordax (Mitchell).

Mitchell, S. L. 1815, Trans. Lit. and Phil. Soc.
 N. Y., 1, 446 (Atherina).
 Cockerell, T. D. A. 1913 B, 126.
 Coleman, A. P. 1901 C, 224.
 Dawson, J. W. 1894 C, 265.
 Hav, O. P. 1923 A, 287.
 Jordan, D. S. 1885 A, 144 fig. 93.
 1905 A n 123, fig. 82.
 Jordan and Evermann 1896 A, 523.
 Jordan and Gilbert 1882 A, 293.
 Lamb, L. M. 1904 C, 39, 44.
 Recent, coast and rivers from Virginia to
 Gulf of St. Lawrence. Pleistocene (Leda clay);
 Ontario.

Osmerus sp. indet.

Eastman, C. R. 1917 A, 293, pl. xviii, fig. 5
 (This genus?). Tertiary; Montana.

Order INIOMI Gill.

Gill, T 1884, Proc U. S. Nat. Mus., vii, 350.

Frost, G. A. 1926 A, 466, pl. xv.

Gill, T. 1893 A, 131.

Gregory, W. K. 1907 D, 451, 484, 485, 487.

Hubbs, C. L. 1919 B, 61.

Jordan, D. S. 1905 A, i, 405, ii, 129, 576.

1907 B, 352.

1923 A, 153.

Jordan and Evermann 1896 A, 530.

Regan, C. 1909 B, 83.

1911 B, 120.

1911 D, 320.

Starks, E. C. 1904 C, 254.

Superfamily MYCTOPHOIDEÆ, new form.

Frost, G. A. 1926 A, 467, pl. xv (Myctophoidæ).

Regan, C. T. 1911 B, 121 (Myctophoidæ).

MYCTOPHIDÆ Gill.

Gill, T. 1893 B, 113.

Unless otherwise indicated the writers below cited use for this family the name Scopelidæ.

Allis, E. P. 1909 A, 201.

Arambourg, C. 1921 A, 233 (Myctophum).

Aldrich, T. 1907 D, 681.

1923 A, 517 ('scopeliden').

Bassani, F. 1905 A, 19.

Boulenger, G. A. 1904 D, 611, 755.

Dean, Gudgeon, Henn. 1923 A, 514 (Myctophidæ).

Frost, G. A. 1926 A, 467 (Myctophidæ).

Gill, T. 1885 C, 139.

Goode and Bean. 1895 A, 70 (Myctophidæ).

Goodrich, E. S. 1909 A, 399.

Günther, A. C. 1864 A, 393.

1880 A, 606.

1881 A, 692.

Jordan, D. S. 1885 A, 139.

1905 A, ii, 132, 582 (Myctophidæ), 134 (Rhinnellidæ).

1923 A, 155 (Myctophidæ), 128 (Rhinnellidæ).

Jordan and Evermann 1896 A, 550 (Myctophidæ).

Jordan and Gilbert 1882 A, 279.

Klem, E. F. 1879 A, 105 (Scopelidæ).

1884 A, 135, 145, 226.

1885 A, 145, 212, 241.

1886 A, 222, 258, 292.

Meek, A. 1916 A, 412, 414.

Müller, J. 1845 A, 102, 136 (Scopelum).

Norman, E. W. 1926 A, 441.

Rauber, M. 1913 A, 1101.

Regan, C. T. 1911 B, 128 (Myctophidæ).

Sagamiel, M. 1884 A, 100 ('scopeliden').

Schlosser, M. 1917 A, 140, 143, 148 ('scope-
liden').

Shepherd, C. E. 1916 A, 182, 184, 204, fig. 157 (Scopelus).

Suberock, F. 1901 A.

Stannius, H. 1854 A (Scopelum).

Woodward, A. S. 1901 A, iv, 6, 235.

Zittel and Koken 1911 A, 130.

Zittel and Schlosser 1923 A, 131.

Zittel and Woodward 1902 A, 99.

RHINELLUS Agassiz. Type *R. furcatus* Agassiz.

Agassiz, L. 1843 B (1844), ii, 260.

Hav, O. P. 1902 A, 397 (Ichthyotringa).

Davis, J. W. 1887 C, 607.

Hay, O. P. 1903 A, 94.

Hennig, E. 1912 A, 490.

Hussakof, L. 1916 C, 348 (Ichthyotringa).

Jordan, D. S. 1905 A, ii, 134.

1919 B, 217.

1923 A, 128, 155 (Rhinnellus, Ichthyotringa).

Pietet and Humbert 1856 A, 44.

Woodward, A. S. 1901 A, iv, 265 (Ichthyotringa
a syn.).

Zittel, K. A. 1890 A, 286.

Zittel, Eastman, etc. 1902 A, 99.

Zittel and Koken 1911 A, 130 (Ichthyotringa a
syn.).

Zittel and Schlosser 1923 A, 131.

Zittel and Woodward 1902 A, 99 (Ichthyotringa
a syn.).

Rhinnellus tenuirostris (Cope).

Hav, O. P. 1902 A, 397 (Ichthyotringa).

1903 A, 94, pl. iv, figs. 7, 8.

Hussakof, L. 1908 A, 95.

Woodward, A. S. 1901 A, 269.

Upper Cretaceous (Niobrara), S. Dakota.

SARDINIUS Marek. Type *Osmernus cordieri* Agassiz.

Hay, O. P. 1902 A, 391.

Cockerell, T. D. A. 1919 A, 184.

Hay, O. P. 1903 A, 91 (Leptosomus; preoccu-
pied).

1903 G, 695 (Leptosomus).

Woodward, A. S. 1901 A, 247.

Zittel and Koken 1911 A, 130.

Zittel and Schlosser 1923 A, 131.

Sardinus? blackburnii Cope.

Hay, O. P. 1902 A, 391.

Woodward, A. S. 1901 A, 248 (Sardinus?).

Oligocene?; South Dakota.

Sardinus? imbellis Hay.

Hay, O. P. 1903 A, 93, pl. iv, fig. 9.

Hussakof, L. 1908 A, 96.

Cretaceous (Niobrara), South Dakota.

Sardinus lineatus Cope.

Hay, O. P. 1902 A, 391.

1903 A, 92, pl. iv, fig. 6; pl. v, fig.

2 (Leptosomus).

Hussakof, L. 1908 A, 79 (Leptosomus).

Woodward, A. S. 1901 A, 248.

Cretaceous (Niobrara), South Dakota.

Sardinus nasutus Cope.

Hay, O. P. 1902 A, 391.

1903 A, 91, pl. iv, figs. 4, 5 (Leptosomus).

Hussakof, L. 1908 A, 79 (Leptosomus).

Woodward, A. S. 1901 A, 248.

Cretaceous (Niobrara), South Dakota.

Sardinius percrassus Cope.

Hay, O. P. 1902 A, 391.
1903 A 92, pl v, fig 3 (Leptosomus).

Hussakof, L. 1908 A, 79 (Leptosomus).
Woodward, A. S. 1901 A, 248.
Cretaceous (Niobrara), South Dakota

PARALEPIDIDÆ Gill

Gill, T. 1872 C, 16
Bonaparte, C. L. 1840 A 302 (Paralepidini);
Dollo L. 1908 A, 59 (Paralepidæ).
Gill, T. 1885 C, 139
Goode and Bean 1895 A, 97.

Jordan, D. S. 1905 A, ii, 136 (Paralepidæ)
1921 A, 250 (Paralepidæ)
1923 A, 154 (Paralepidæ).
Jordan and Evermann 1896 A, 599
Jordan and Gilbert 1882 A, 276
Regan, C. T. 1911 B, 125 (Sudidæ).

TROSSULUS Jordan. Type *T. exoletus* Jordan.

Jordan D S 1921 A, 250.

Trossulus exoletus Jordan.

Jordan, D S 1921 A, 250, pl viii, fig. c; pl.
xxviii, fig a
Miocene (Monterey); California.

DRIMYS Jordan. Type *D. defensor* Jordan.

Jordan, D S 1925 B, 14

Drimys defensor Jordan.

Jordan D S 1925 B, 14
Miocene (Monterey), California

LESTICHTHYS Jordan. Type *L. porteousi* Jordan.

Jordan D S 1921 A, 250.

Lestichthys porteousi Jordan.

Jordan, D S 1921 A, 250, pl x, fig. b, pl xxi,
fig b
Miocene (Monterey), California.

Order **HETEROMI** Gill.

Gill, T. 1889 D, 1016.
Bouleuger G A 1904 D, 621
Dean, Gudger, Henn 1923 A 369, 572, 643
Frost, G A 1926 A, 466, 479 pl xx.
Gill, T. 1889 C, 1016 (Lyopomus)
1893 A, 133
Goode and Bean 1895 A, 162.
Goodrich E S 1909 A, 416 (Notacanthiformes).

Gregory, W K 1907 D, 451, 482
Jordan D S 1905 A, i, 405; ii, 157.
1907 B 376
1923 A, 128
Jordan and Evermann 1896 A, 612
Meek, A 1916 A, 186
Regan, C T. 1909 B, 82
1912 B, 841, 844

Suborder **DERCETIFORMES**.

Jordan, D S 1923 A, 128 (Hoplopleuri, Dercetiformes)

STRATODONTIDÆ Cope.

Hay, O P 1902 A, 387.
Allis, E P. 1909 A, 201
Ardt, T. 1907 D, 151, 281
Cope, E D 1872 I, 348

Cope E D 1880 U, 146 ("stratodontides")
Jordan, D S 1905 A, ii, 137.
1907 B, 360
1923 A, 128

STRATODUS Cope. Type *S. apicalis* Cope.

Hay, O P 1902 A, 387.
Cockerell, T. D. A. 1919 A, 184.
Dollo, L. 1892 F, 181.
Hennig, E. 1912 A, 490.
Storms, R. 1891 A, 151, 152
Woodward, A. S. 1901 A, 188.
Zittel and Woodward 1902 A, 98.

Stratodus apicalis Cope.

Hay, O P. 1902 A, 387.

Hussakof, L. 1908 A, 102.
Woodward, A. S. 1901 A, 189, 614
Cretaceous (Niobrara); Kansas

Stratodus oxypogon Cope.

Hay, O P 1902 A, 387.
1903 A, 80, text-figs. 66-68
Hussakof, L. 1908 A, 102.
Woodward, A. S. 1901 A, 189.
Cretaceous (Niobrara); Kansas

CIMOLICHTHYS Leidy. Type *C. levisiensis* Leidy.

- Hay, O P. 1902 A, 387 (Empo); 390 (Cimolichthys).
 Cockerell, T. D A. 1919 A, 184.
 Cope, E. D. 1880 U, 147 (Empo).
 Dollo, L. 1892 F, 181 (Empo); 182 (Cimolichthys).
 Green, W. R. 1913 A, 73.
 Hay, O P. 1903 A, 81 (Empo).
 Henning, E. 1912 A, 490.
 Krause, P. G. 1901 A, 120.
 Leriche, M. 1902 B, 140.
 1906 C, 96.
 Moodie, R. L. 1911 G, 278 (Empo).
 Stephan, P. 1900 A, 340 (Empo).
 Storms, R. 1891 A, 151 (Empo); 153 (Cimolichthys).
 Stromer, E. 1917 A, 23.
 Woodward, A. S. 1901 A, 221.
 1912 A (1902), 43.
 Zittel and Koken 1911 A, 126.
 Zittel and Schlosser 1923 A, 131.
 Zittel and Woodward 1902 A, 98 (Cimolichthys); 99 (Empo).

Cimolichthys contractus (Cope).

- Hay, O P. 1902 A, 387 (Empo).
 Woodward, A. S. 1901 A, 228
 Upper Cretaceous (Niobrara); Kansas.

Cimolichthys lisbonensis (Stewart).

- Hay, O P. 1902 A, 38 (Empo).
 Woodward, A. S. 1901 A, 228.
 Upper Cretaceous (Lisbon shales); Kansas

Cimolichthys merrillii (Cope).

- Hay, O P. 1902 A, 387 (Empo)
 Woodward, A. S. 1901 A, 228
 Upper Cretaceous (Niobrara), Kansas.

Cimolichthys nepaholica (Cope).

- Hay, O P. 1902 A, 387 (Empo)
 Cockerell, T. D A. 1919 A, 184
 Cope, E. D. 1875 E, 230, 279, pls xlix, fig 9;
 pl 1, fig 8; in, fig. 1; in, figs. 3-5, pl. lxx,
 figs 1-9, pl. lxi, figs. 2-5 (Empo nepaholica)
 Hay, O P. 1902 B, 745 (Empo).
 1903 A, 81, pl 1, fig 4; text-figs 69-72
 (Empo)
 Hussakof, L. 1908 A, 66, fig 35
 Kruzinga, P. 1924 A, 299, 311 (Empo nepaholica)
 Moodie, R. L. 1911 G, 278, pl lx, pl. lxx fig 2
 (Empo)
 1913 A 249 (Empo).
 Priem, F. 1908 B, 66, 67 (C nepaholica)
 Woodward, A. S. 1901 A, 225, fig 9
 Upper Cretaceous (Niobrara); Kansas,
 France

Cimolichthys semianiceps (Cope).

- Hay, O P. 1902 A 387 (Empo)
 1903 A 54 (Empo)
 Woodward A S. 1901 A 228
 Upper Cretaceous (Niobrara) Kansas

Cimolichthys sp. indet.

- Lambe, L. M. 1916 A, 196 Upper Cretaceous
 (Pierre?) Manitoba

DERCETIDÆ Cope.

- Hay, O P. 1902 A, 396.
 Abel, O. 1921 A, 188 (Hoplopleuridæ).
 Boulenger, G. A. 1904 A, 171.
 1904 D 623
 Cockerell, T. D A. 1919 A, 184, 185.
 Dean, Gudger Henn 1923 A, 643.
 Goodrich, E. S. 1909 A, 417.
 Hay, O P. 1903 G, 691.
 Hennig, E. 1906 A, 173.
 Hoernes R. 1886 A, 556 (Hoplopleuridæ).
 Jordan, D. S. 1905 A, ii, 136, 137.

- Jordan, D. S. 1907 B 359 377.
 1923 A, 128
 Regan C. T. 1909 B 53
 1911 B, 120
 Schlosser M. 1917 A, 140
 Woodward A. S. 1901 A, 6, 171.
 1912 A (1903), 65
 Zittel and Koken 1911 A 125
 Zittel and Schlosser 1923 A, 135
 Zittel and Woodward 1902 A, 97.

LEPTECODON Williston. Type *L. rectus* Willist.

- Hay, O P. 1902 A, 397.
 Sauvage, H. E. 1901 B, 6 (Leptocodon).
 1901 F, 77 (Leptocodon).
 Schlosser, M. 1901 M, 479.
 Woodward, A. S. 1901 A, 233.

Leptecodon rectus Willist.

- Hay, O P. 1902 A, 397
 Sauvage, H. E. 1901 B, 6 (Leptocodon).
 1901 F, 77 (Leptocodon).
 Schlosser, M. 1901 M, 479
 Woodward, A. S. 1901 A, 233.
 Cretaceous (Niobrara); Kansas

TRIENASPIS Cope. Type *T. virgulatus* Cope.

- Hay, O P. 1902 A, 397.
 Cockerell, T. D A. 1919 A, 185.
 Hay, O P. 1903 A, 89.
 1903 G, 694.
 Hennig, E. 1912 A, 490.
 Hussakof, L. 1916 C, 348
 Jordan, D. S. 1919 B, 394.

- Woodward, A. S. 1901 A, 187 (Leptotrachelus).

Trienaspis virgulatus Cope.

- Hay, O P. 1902 A, 397.
 Cockerell, T. D A. 1919 A, 185.
 Hay, O P. 1903 A, 89, pl. v, fig 1.
 1903 G, 691.

Jordan, D. S. 1919 B, 394 (*Leptotrachelus virgatulus*).

Woodward, A. S. 1901 A, 187 (*Leptotrachelus*).
Upper Cretaceous (Niobrara); South Dakota

LEPTOTRACHELUS Marek. Type *L. armatus* Marek.

Hay, O. P. 1902 A, 397
Cope, E. D. 1880 U, 147.
Hay, O. P. 1903 A, 90
1903 G, 694
Hennig, E. 1912 A, 490
Woodward, A. S. 1901 A, 173
1912 A (1903), 68, pl. xvi, text-figs 15, 16.
Zittel and Koken 1911 A, 125.
Zittel and Woodward 1902 A, 98.

Leptotrachelus longipinnis Cope.

Hay, O. P. 1902 A, 397.
1903 A, 90, pl. iv, fig. 3; pl. v, fig. 4.

Cockerell, T. D. A. 1919 A, 185.
Hussakof, L. 1908 A, 80.
Woodward, A. S. 1901 A, 187
Cretaceous (Niobrara), South Dakota.

Leptotrachelus virgulatus (Cope).

Hav, O. P. 1902 A, 397 (*Trienaspis*).
Hussakof, L. 1908 A, 80
Cretaceous (Niobrara); South Dakota.

HALOSAURIDÆ Gunther.

Gunther A. C. 1868 A, 482
Ardt, T. 1907 D, 657
Boulenger, G. A. 1904 D, 623
Carus, V. 1875 A 579 (*Halosauroides*).
Dean Gudger, Henn 1923 A, 643.
Gregory, W. K. 1907 D, 483
Goodrich, E. S. 1909 A, 417
Gunther, A. C. 1880 A, 665.
1881 A, 694.

Jordan, D. S. 1905 A, ii, 138, 158
1919 B, 283.
1923 A, 128 (*Toxopomus*)
Jordan and Evermann 1896 A, 606
Meek A. 1916 A, 186
Rauther, M. 1913 A, 1102.
Regan, C. T. 1909 B, 82
Woodward, A. S. 1901 A, 162
Zittel and Schlosser 1923 A, 135

ECHIDNOCEPHALUS Marek. Type *E. troscheli* Marek.

Marek W. 1858 Zeitschr. deutsch. geol. Ges.,
x 247
Cockerell, T. D. A. 1919 A, 184.
Woodward A. S. 1898 C, 259
1901 A, 163

Echidnocephalus? pacificus Cockerell.

Cockerell, T. D. A. 1919 A, 185, pl. xxxvi, fig. 11.
Upper Cretaceous (Chico), California

Echidnocephalus? americanus Cockerell.

Cockerell, T. D. A. 1919 A, 184, pl. xxxvi, fig. 10
Upper Cretaceous (Mesa Verde); Wyoming

Order HAPLOMI Cope.

Cope, E. D. 1871 T, 452.
Hay, O. P. 1902 A, 398.
Abel O. 1919 A, 157.
Ardt T. 1923 A, 516 ("haplomen").
Boulenger G. A. 1902 C, 389.
1904 A, 162, 168, 174.
1904 D, 605.
Cope, E. D. 1891 N, 22.
Cunningham, J. T. 1912 A, 247.
Dean, Gudger, Henn 1923 A, 683.
Dietz P. A. 1917 A, 84.
Fowler H. W. 1911 A, 166.
Frost G. A. 1926 A, 464, 479, pl. xx.
Gill, T. 1885 C, 168.
1905 A, 659
Goodrich, E. S. 1909 A, 397 (*Esociformes*).
Gregory, W. K. 1907 D, 451, 487.
Hubbs, C. L. 1919 B, 61, 66.

Jaekel, O. 1911 A, 92
Jordan, D. S. 1885 A, 168
1904 A, 598
1905 A, ii, 189, 574.
1907 B, 408, 424, 764.
1923 A, 156
Jordan and Gilbert 1882 A, 323
Meek, A. 1916 A 179.
Rauther, M. 1913 A, 1101.
Regan, C. T. 1909 B, 77, 83
1911 D, 320 (*Haplomi*, *Microcyprini*)
1912 B, 841, 843.
Schlesinger, G. 1909 A, (147, 152).
Starks, E. C. 1901 A, 280.
1904 C, 254.
1916 A, 23
Swinnerton, H. W. 1905 A, 378
Whitehouse, R. H. 1910 B, 604

Suborder CYPRINODONTIFORMES, new form.

Frost, G. A. 1926 A, 475, pl. xxi (*Mylocyprini*,
Pæcihoidea)
Gill, T. 1872 C, 15 (*Cyprinodontoides*).
Jordan, D. S. 1923 A, 157 (*Cyprinodontes*).

Regan, C. T. 1909 B, 82 (*Microcyprini*).
1911 D, 322 (*Pæcihoidea*).
Sagemehl, M. 1891 A ("cyprinodonten").
Starks, E. C. 1904 C, 258 (*Pæcihoidea*).

CYPRINODONTIDÆ Owen.

- Owen, R. 1846, 48
 Hav, O P 1902 A, 398 (Pœciludæ).
 Adams A 1854 A, 107 (Pœciludæ).
 Agassiz, L 1838 A, 82 ("cyprinodonten").
 1844 D, 142 ('cyprinodontes').
 Allis, E P 1898 B, 95 (Cyprinodontides).
 Arldt, T. 1907 D, 649.
 1912 A, 690, 762
 1923 A, 518 ("cyprinodontiden").
 Bonaparte, C. L. 1840 A, 53 (Pœciludæ).
 Boulenger, G. A. 1904 A, 169.
 1904 D, 616, 637.
 1917 B, 330.
 1919 A, 44.
 Bronn, H G 1849 A, 780, seq (Cyprinodontes).
 Carus, V 1875 A, 572 (Cyprinodontes)
 Cockerell, T D A 1913 B, 141 (Pœciludæ).
 1915 A, 31 (Pœciludæ).
 Cope E D. 1871 T, 455.
 Cunningham, J T. 1912 A, 247
 Dean Gudger Henn 1923 A, 676
 Eastman, C R. 1917 A, 290
 Fitzinger, L J 1873 A 38 (Cyprinodontes).
 Frost, G A 1926 A, 475
 Gaupp, E 1898 B, 823 ("cyprinodontiden").
 Giebel, C G 1855 A, 108 ("cyprinodontes").
 Gill T 1885 C, 170.
 Goodrich, E S 1909 A, 400.
 Gunther, A C 1866 A, 299.
 Heckel J 1850 B, 146 ("pœcilien")
 Hoernes R 1886 A, 530 (Cyprinodontes).
 Hubbs, C L 1919 B, 66 (Pœciludæ).
 Ihering, H 1891 C, 25 ('cyprinodonten').
 Jordan, D S 1885 A, 902
 Jordan, D S 1905 A, ii, 194, 586 (Pœciludæ).
 1907 B, 413 (Pœciludæ)
 1923 A, 157, 158
 Jordan and Gilbert 1882 A, 326.
 Kindred, J E 1924 A, 423 ("cyprinodonts").
 Leunis and Ludwig 1883 A, 741.
 Lonnberg, E. 1902 A (Cyprinodontes).
 Meek, A 1916 A, 183.
 Muller, J 1845 A, 102, 136 (Cyprinodontes)
 Norman, E W. 1926 A, 441.
 Nusbaum, J. 1908 A, 514 ("cyprinodonten").
 Owen, R 1845 B, 144 ("cyprinodonts").
 Palacký, J. 1902 B, 150 ("cyprinodonten").
 Raither, M 1913 A, 1101
 Regan, C T 1909 B, 84
 1911 D, 323.
 1912 B, 841.
 1913 C, 977 ("cyprinodonts").
 * 1923 B 457 ("cyprinodonts").
 Sagemehl, M 1883 A ("cyprinodonten").
 1884 A, 100 ('cyprinodontiden').
 Shepherd, C E 1914 A, 270
 Staunus, H 1854 A (Cyprinodontes)
 Starks E C 1904 C, 259 (Pœciludæ).
 Stephan, P 1900 A, 321 ('cyprinodontes').
 Struck W 1915 A, 137 fig 3 (Cyprinodon)
 Uhlmann E 1921 A, 301
 Wagner, H 1843 A ("cyprinodonten").
 Wallace, A R 1876 A, ii, 450
 Woodward A S 1901 A, ix, 7, 289
 Zittel and Koken 1911 A 122
 Zittel and Schlosser 1923 A, 132
 Zittel and Woodward 1902 A, 100

PARAFUNDULUS Eastman. Type *P. nevadensis* Eastman.

- Eastman C R 1917 A, 291.
 Jordan D S 1925 B, 43.

Parafundulus erdisi Jordan.

- Jordan, D S 1924 B, 45, pls I, J.
 1925 B, 43.
 Miocene (Lahontan); California.

Parafundulus nevadensis Eastman.

- Eastman C. R. 1917 A, 291, pl xvi, fig 2, pl
 xvii, pl xviii fig 3
 Jordan D S 1924 B 47
 Miocene (Lahontan), Nevada

PROBALLOSTOMUS Cope. Type *P. longulus* Cope.

- Hav O P 1902 A. 394
 The systematic position of this genus is
 doubtful

Proballostomus longulus Cope.

- Hay O P 1902 A, 394
 Woodward, A S 1901 A, 296
 Oligocene?, South Dakota

GEPHYRURA Cope. Type *G. concentrica* Cope.

- Hav O P 1902 A 398 (Gephyura *errore*).
 Arldt, T 1907 D, 97 ("cyprinodontengattung")
 Eastman, C R 1917 A, 290
 The systematic position of this genus is
 doubtful.

Gephyrura concentrica Cope.

- Hav, O P 1902 A 398 (Gephyura *errore*).
 Eastman, C R 1917 A, 290
 Woodward A S 1901 A, 296
 Oligocene?, South Dakota

Order SYNENTOGNATHI Gill.

- Gill, T. 1856, Proc. Acad. Nat. Sci. Phila.,
 1856, 148.
 Cope, E D. 1871 T, 456, 457.
 1872 C, 338.
 Frost, G A 1926 A, 471, 480, pl. xx.
 Gill, T 1872 C, 14.
 1885 C, 173.

- Gregory W. K. 1907 D, 491
 Hubbs, C. L 1919 B, 61
 Jordan, D S 1905 A, ii, 209.
 1907 B, 425
 1921 A, 253
 1923 A, 160.
 Jordan and Evermann 1896 A, 707.

Jordan and Gilbert 1882 A, 371.
Regan C T 1909 B, 78
1911 E, 327, 331

Regan C T 1912 B, 842, 844.
Stark E C 1904 B, 601 ("synentognaths").

FORFICIDÆ Jordan and Gilbert.

Jordan and Gilbert 1919 A, 36.

Jordan D S 1921 A, 254.
1923 A, 160.

FORFEX Jordan. Type *F. hypuralis* Jordan.

Jordan D S in Jordan and Gilbert 1919 A, 36.
Jordan, D S 1920 C, 568.
1921 A, 254.
1923 A, 160.
1925 B, 16.

Forfex hypuralis Jordan and Gilbert.

Jordan, D S. in Jordan and Gilbert 1919 A,
36, pl xiv, fig 3
1921 A 254, pl. xxi, fig. b.
Miocene (Monterey); California.

BELTION Jordan. Type *B. peronides* Jordan.

Jordan D S 1920 C, 571.
1921 A, 257
1923 A, 161
1925 B, 16

Beltion peronides Jordan.

Jordan D S 1920 C, 571.
1921 A, 257.
1925 B, 16, pl v.
Miocene (Monterey); California.

ZELOTICHTHYS Jordan. Type *Zelotes alhambra* Jordan.

Jordan D S 1925 B, 44.
1921 A, 255 (Zelotes; preoccupied).

Zelotichthys alhambra (Jordan).

Jordan D S 1921 A, 254, pl xii, fig a, pl.
xxvi fig b (Zelotes).

Jordan, D S 1925 B, 44
Miocene (Monterey), California
In Jordan, D S 1921 A, plate xxvii was
intended for this species; plate xxviii for
Zelosis hadleyi

ROGENIIDÆ Jordan.

Jordan D S 1919 A, 8, 24.
1921 A 253

Jordan D S. 1923 A, 160

ROGENIO Jordan. Type *R. solitudinis* Jordan.

Jordan D S 1907 A, 128
Hubbs, C L 1924 A, 177, 178.
Jordan D S 1921 A, 253.

Jordan and Gilbert 1919 A, 24.
Miocene? (Soledad); California.

Rogenio solitudinis Jordan.

Jordan D S 1907 A, 128, fig. 23.
1919 A, 5 8 pl ii fig 1.
1921 A, 253, pl. xvii, fig b.

Rogenio vancleveii Jordan and Gilbert.

Jordan and Gilbert 1919 A, 24, pl. xxxi, fig 3.
Jordan, D S 1921 A, 253, pl xxv, fig. a.
Miocene (Monterey), California

XENESTHIDÆ Jordan.

Jordan, D S 1923 A 160.

XENESTHES Jordan. Type *X. velox* Jordan.

Jordan, D S 1907 A, 120.
Aldt, T 1923 A, 500

Xenesthes velox Jordan.

Jordan, D S 1907 A, 120, fig. 16
Hubbs C L 1924 A, 177.
Triassic, California

Superfamily SCOMBERESOCOIDÆ, new form.

Frost G A 1926 A, 471, pl xx (Scomberesocoida)
Klein E F. 1884 A, 130, 135, 145, 190, 199, 229
(Scomberesoces).

Klein, E F. 1885 A (Scomberesoces).
Regan, C T. 1911 E, 331 (Scomberesocoida, as
suborder).

SCOMBERESOCIDÆ Richardson.

Richardson J. 1846 A, 264.
The greater number of the authors quoted
spell this name Scomberesocidæ.
Abel, O. 1906 C, 84.
Aldt, T 1907 D, 681.
1923 A, 673 ("scomberesociden").

Bassoli, G G 1906 A, 37 (otoliths).
Bouenger, G. A 1904 A, 175.
1904 D, 636, 637
1917 B, 329.
1919 A 44
Carus, V 1875 A, 551 (Scomberesoces).

- Cockerell, T. D. A. 1913 B, 145.
 Cope, E. D. 1872 C, 338.
 Dean, Gudger, Henn 1923 A, 362, 582, 645.
 Dietz, P. A. 1917 A, 86.
 Dollo, L. 1889 E, 155.
 Eastmann, C. R. 1911 C, 360.
 Fitzinger, L. J. 1873 A, 36 (Scomberesoces).
 Fryd, C. 1901 A, 25.
 Gaupp, E. 1898 B, 823 ("scomberesoces").
 Gill, T. 1885 C, 174 ("scomberesoces").
 Goodrich, E. S. 1909 A, 402.
 Gregory, W. K. 1907 D, 493.
 Gunther, A. C. 1886 A, 233.
 1890 A, 620.
 1881 A, 693.
 Hoernes, R. 1886 A, 531 (Scomberesoces).
 Hubbs, C. L. 1919 B, 66.
 Ihering, H. 1891 C, 25 ("scomberesociden").
 Jordan, D. S. 1904 A, 598.
 1905 A, n, 211 (Exocoetidae, in part).
 1907 B, 427 (Exocoetidae, in part).
 1923 A, 161.
 Jordan and Evermann 1896 A, 724.
 Jordan and Gilbert 1882 A, 371.

- Klein, E. F. 1879 A, 66.
 1884 A.
 1885 A, 114, 154, 164, 179, 214, 246 (Scomberesoces).
 1886 A, 207, 233, 262, 293 (Scomberesoces).
 Leunis and Ludwig 1883 A, 742.
 Meek, A. 1916 A, 199.
 Muller, J. 1846 C, 170, 174 (Scomberesoces).
 Norman, E. W. 1926 A, 441.
 Nusbaum, J. 1908 A, 514 ("scomberesoces").
 Owen, R. 1845 B, 131 (Scomberesoces).
 1866 A, 10.
 Rauther, M. 1913 A, 1102.
 Regan, C. T. 1911 E, 333.
 Sagemehl, M. 1884 A, 100 ("scomberesociden").
 Schlesinger, G. 1909 B.
 Siebenrock, F. 1901 A, 108.
 Stannius, H. 1854 A, 5, seq. (Scomberesoces).
 Terrie, P. 1911 A, 214.
 Uhlmann, E. 1921 A, 301 (Scomberesoces).
 Wallace, A. R. 1876 A, n, 449.
 Woodward, A. S. 1901 A, 356.
 Zittel and Koken 1911 A, 122.
 Zittel and Schlosser 1923 A, 133.
 Zittel and Woodward 1902 A, 103.

SCOMBERESSUS Jordan. Type *Scomberesoc acutillus* Jordan and Gilbert.

- Jordan, D. S. 1920 C, 571.
 1921 A, 257.

Scomberessus acutillus (Jordan and Gilbert).

- Jordan and Gilbert 1919 A, 37, pl. xiv, fig. 2. (Scomberesoc).
 Jordan, D. S. 1920 C, 571.

- Jordan, D. S. 1921 A, 257, pl. xxvii, fig. a.
 Miocene (Monterey); California

Scomberessus edwardsi (Jordan and Gilbert).

- Jordan and Gilbert 1919 A, 37, pl. xviii (Scomberesoc).
 Jordan, D. S. 1921 A, 257.
 Miocene (Monterey); California

HEMILAMPRONITES Steinla. Type *H. steinlai* Geinitz.

- Steinla, M. 1868, in Geinitz, H. B. 1868 A, 48, pl. iii, figs. 3, 4.
 Cockerell, T. D. A. 1919 A, 185.
 Jordan, D. S. 1919 B, 350.

Hemilampronites hesperius Cockerell.

- Cockerell, T. D. A. 1919 A, 185, pl. xxxvi, fig. 13.
 Upper Cretaceous (Fox Hills), Colorado.

BELONIDÆ Gill.

- Gill, T. 1872 C, 14.
 Allis, E. P. 1909 A, 213 (Belone).
 Bonaparte, C. L. 1840 A, 301 (Belonini).
 Frost, G. A. 1926 A, 471, pl. xx.
 Gill, T. 1885 C, 176.
 Goodrich, E. S. 1909 A, 403 (Beloninae).
 Gregory, W. K. 1907 D, 492.
 Hubbs, C. L. 1919 B, 66.
 Jordan, D. S. 1905 A, n, 210.
 1907 B, 426.

- Jordan, D. S. 1921 A, 257.

1923 A, 239.

1925 B, 16.

- Klein, E. F. 1884 A, 145, 229, 246 (Belone).
 1885 A, 114, 154, 177 (Belone).

- Regan, C. T. 1911 E, 329, 331.

The genus *Belton* was at one time referred to this family but was later assigned to the Forficidae.

Superfamily EXOCOETOIDÆ, new form.

- Frost, G. A. 1926 A, 472, pl. xx (Exocoetoida).

- Regan, C. T. 1911 E, 331 (Exocoetoida, as suborder).

HEMIRHAMPHIDÆ Jordan and Evermann.

- Jordan and Evermann 1896 A, 718 (earliest?).
 Ardit, T. 1923 A, 673 (Hemirhamphus).
 Bassoli, G. G. 1906 A, 37, pl. 1 (Hemirhamphus, otoliths).
 Cockerell, T. D. A. 1913 B, 145.

- Dean, Gudger, Henn 1923 A, 683 (Hemirhamphus).

- Frost, G. A. 1926 A, 472 (Hemirhamphus).

- Gill, T. 1885 C, 174 (Hemirhamphinae).

- Gregory, W. K. 1907 D, 492 ("half-beaks").

Hubbs, C L 1919 B, 66.

Jordan, D S 1905 A, ii, 227.

1923 A, 161.

Jordan and Gilbert 1882 A, 372 (Hemirhamphinae).

ZELOSIS Jordan and Gilbert. Type *Clupea hadleyi* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 24

Jordan D S 1921 A, 256

The position of this genus is uncertain.

Zelosis hadleyi (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 25, 29, pl xiii (Clupea)

Klein, E F 1884 A, 130 (Hemirhamphus).

1885 A, 115, 155 (Hemirhamphus)

1886 A, 223 (Hemirhamphus).

Regan, C T 1911 E, 324

Stannius, H 1854 A (Hemirhamphus).

Jordan D S 1921 A, 256 pl. xxvi, fig. a

1925 B 44

Jordan and Gilbert 1920 A, 24, pl. xxix.

Miocene (Monterey); California.

In *Jordan, D S* 1921 A, fig. a of pl. xxvi was intended for this species, fig b for *Zelotes alhambra*

ROGENITES Jordan. Type *Rogenio bowersi* Jordan.

Jordan D S 1919 A 8

Rogenites bowersi Jordan.

Jordan D S 1907 A, 130, fig 24 (Rogenio)

Jordan, D S 1919 A, 5, 8 pl. ii, fig. 2

1921 A 255 pl. xv, fig a

Miocene* (Soledad); California

RHOMURUS Jordan. Type *R. fulcratus* Jordan.

Jordan D S 1919 A 9

The family relationships of this genus are uncertain

Rhomurus fulcratus Jordan.

Jordan, D S 1919 A, 5, 9, pl. iv, figs 3, 4 pl. v, fig 1

1921 A, 248.

1925 B 44

Miocene* (Soledad), California

Order GADOMORPHI, new name.

Unless otherwise indicated the authors, as quoted use for this order the name Anacanthini. Originally it included the flat fishes, etc.

Abel O 1919 A 157.

Allis E P 1909 A, ii, 197.

Ardt, T 1907 D, 637.

1923 A, 673 675 ("anacanthinen").

Boulenger G A 1901 A, 265.

1902 B, 297.

1904 A, 176.

1904 D 646

Bridge T W 1896 A, 558

Carrs V 1875 A, 551.

Cockerell T D. A 1913 B

Cope, E D 1872 C, 341.

Dietz, P A 1921 A, 456 (Gadiformes).

Gill, T 1884 F, 167.

1885 C, 267.

Frost, G A 1926 A, 483, pl. xxii.

Goode and Bean 1895 A, 352.

Goodrich, E S. 1909 A, 478 (Gadiformes).

Gregory, W K 1907 D, 498

Hauner, A C 1881 A 688, 691.

Jordan, D S 1905 A, i, 405; ii, 532, 556

1907 B, 739

Klein, E F. 1879 A, 103

1884 A, 135, 145 (Anacanthini).

1885 A, 119, 141, 208, 238.

1886 A, 220, 256, 287 (Anacanthini).

Muller, J. 1846 C, 130, 177, 202

Owen R 1866 A, 10.

Raither, M 1913 A, 1103.

Regan, C T 1903 B, 459, 464.

1909 B, 80

1912 B, 839, 842, 848

Stannius, H 1854 A, 5, seq (Anacanthini)

1891 A ("gadiden")

Steinmann, G 1927 A, 77 (Gadiformes).

Stephan, P 1900 A, 321 ("anacanthines").

Terra, P. 1911 A, 213 (Anacanthini).

Superfamily GADOIDÆ Gill.

Gill T 1863 B 243 (As family name).

Dietz, P A 1917 A, 84 (Gadiformes).

1921 A, 433

Gill, T 1884 F, 170 (Gadoidea).

Gunther, A C. 1881 A, 691 (Gadoidei).

Klein, E F. 1879 A, 67, 70, 75 (Gadoidei).

Owen, R 1845 B, 161 ("gadoids")

Zittel and Schlosser 1923 A 149 (Gadiformes).

GADIDÆ Bonaparte.

Bonaparte C L 1831 A, 95, 117.

Abel, O 1919 A 47, 108, figs 21, 24, 67.

Allis, E P 1903 B, 172 (Gadus).

1909 A, 213 (Gadus).

1915 A, 566 (Gadus).

Ardt T 1907 D, 655.

1921 A, 215 ("gadiden")

Ardt, T. 1922 F, 83

1923 A, 676 ("gadiden")

Bassoli, G. G. 1906 A, 38, pl. i (otoliths).

Baudelot, E 1873 A, 101, 205 ("gadoides")

Bonaparte, C L. 1838 B, 132.

Boulenger, G A 1901 A, 265

1902 B, 296.

- Boulenger, G. A. 1904 D, 647, 740.
 Bridge, T. W. 1896 A, 558.
 Carus, V. 1875 A, 552 (Gadoiden).
 Cockerell, T. D. A. 1913 B, 173.
 Cope, E. D. 1872 C, 341.
 Creaser, C. W. 1926 A, 32.
 Cunningham, J. S. 1905 A.
 Dean, Gudger Henn 1923 A, 681.
 Dietz, P. A. 1914 A, 139
 1921 A, 433
 Frost, G. A. 1926 A, 483, 489.
 Gill, T. 1863 B, 243 (Gadoidæ).
 1863 C, 229
 1872 C, 3
 1884 F, 170.
 1885 C, 267
 Goode and Bean 1895 A, 352.
 Gregory, W. K. 1907 D 498.
 Goodrich, E. S. 1909 A, 482.
 Gunther, A. C. 1862 A, 326.
 1881 A, 691
 Hasse, C. 1872 A (Gadus).
 Jordan, D. S. 1905 A, i, 290; ii, 522, 533.
 1907 B, 740
 1921 A, 260
 1923 A, 163
 Jordan and Evermann 1898 A, 2531.
 Jordan and Gilbert 1882 A, 794.
 Klem, E. F. 1879 A 70 75, 115
 1884 A 137 145, 176, 224, 248
 1885 A 119 141 174, 238.
 1886 A, 207, 220 256 287 ("gadiden").
 Koken, E. 1889 B, 117, 120.
 Meek, A. 1916 A, 209
 Mummerv, J. H. 1917 A 256
 Newton, E. T. 1891 A, 93 (Gadus).
 Norman, E. W. 1926 A, 407, 411, fig 44
 Owen, R. 1845 B, 161 ("cod-tribe").
 1848 B 10, 90, figs 1-5
 1866 A, 10, 93, figs 75 77-81 (Gadus)
 Priem, F. 1914 B, 249, figs 10-12 ("gadidarum";
 "otolithus").
 Rauther, M. 1913 A 1102
 Regan, C. T. 1903 B, 460, 465
 Reynolds, S. H. 1897 A, 83 figs 12, 13 (Gadus)
 Rose, C. 1897 A 29, 60, figs 2-4, 17 (Merlucius
 Gadus).
 Sagemehl, M. 1883 A, 192 ('gadiden').
 1884 A, 74 ("gadiden")
 1891 A ("gadoiden")
 Schlosser, M. 1917 A, 142, 143 ('gadiden')
 Shepherd, C. E. 1910 B 295 (Gadus)
 1916 A, 178 203
 Siebenstock, F. 1901 A
 Stadtmüller, F. 1926 A 162 (Gadus)
 Stammus, H. 1842 C, 97 (Gadus)
 1849 A 539 (Gadus)
 1854 A 5, seq (Gadoiden)
 Starks, E. C. 1905 A, 755 (Gadus)
 Stensio, E. A. 1921 A, 155
 Stephan, P. 1900 A 301 340, 364 pl vi, fig 1
 (Gadus, Lota)
 Terra, P. 1911 A 213
 Thomson, J. S. 1904 A 1-109, pl. i-viii
 Trouessart, E. L. 1906 A 212
 Uhlmann, E. 1921 A, 303 ('gadiden')
 Weiler, W. 1922 A 73 (otoliths)
 Whitcomb, R. H. 1918 A 140
 Woodward, A. S. 1901 A 597
 Zittel and Koken 1911 A, 127
 Zittel and Schlosser 1923 A, 150

ARNOLDITES Jordan. Type *Arnoldina mustia* Jordan and Gilbert.

- Jordan, D. S. 1923 A, 164.
 Hubbs, C. L. 1924 A, 178.
 Jordan and Gilbert 1919 A, 63 (Arnoldina, pre-occupied)
 Arnoldites iniistia (Jordan and Gilbert).
 Jordan and Gilbert 1919 A 63, pl xxxv, fig 2
 (Arnoldina)
 Jordan, D. S. 1921 A 262 (Arnoldina)
 Pliocene, California

ECLIPES Jordan and Gilbert. Type *E. veterinus* Jord. and Gilbert.

- Jordan and Gilbert 1919 A, 47 (Eclipses); 56
 (Merimma type *M. ectenes*)
 Jordan, D. S. 1921 A, 260.
 Eclipses extensus Jordan.
 Jordan, D. S. 1921 A, 261, pl. ix, fig c.
 Miocene (Monterey) California.
 Eclipses manni Jordan.
 Jordan, D. S. 1921 A 260 pl. xii, fig b; pl.
 xvi, fig a
 Jordan, D. S. 1925 B, 17
 Miocene (Monterey), California
 Eclipses veterinus Jordan and Gilbert.
 Jordan and Gilbert 1919 A 47 pl viii, fig 4
 (E. veterinus) 56, pl xxxi, figs 1-3 (Merimma
 ectenes)
 Jordan, D. S. 1921 A, 260, pl xxxi, fig b
 Jordan and Gilbert 1920 A 41
 Miocene (Monterey), California

MACROURIDÆ Jordan and Evermann.

- Jordan and Evermann 1898 A, 2561.
 Boulenger, G. A. 1904 D, 647, 702 (Macruridæ).
 Cockerell, T. D. A. 1913 B, 173, pl. xi, fig. 48
 (Macruridæ).
 Dean Gudger, Henn 1923 A, 688 (Macruridæ).
 Frost, G. A. 1926 A 483, pl xxv (Macrurus).
 Gill, T. 1885 C, 275 (Macruridæ)
 Gunther, A. C. 1862 A, 390 (Macruridæ)
 Jordan, D. S. 1923 A, 162
 Jordan and Gilbert 1882 A, 810 (Macruridæ).
 Shepherd, C. E. 1916 A, 203 (Macrurus)

BOLBOCARA Jordan. Type *B. gyrinus* Jordan.

Jordan D. S. 1927 B, 94.

Bolbocara gyrinus Jordan.

Jordan, D. S. 1927 B, 94.

Upper Miocene (Lompoc), California.

Order MUGILOMORPHI, new name.

Suborder MUGILIFORMES Günther.

Günther, A. C. 1880 A, 499.

Unless otherwise indicated the authors, as cited, use for this suborder the term *Percesoces*.

Hay, O. P. 1902 A, 398.

Abel, O. 1919 A, 157.

Ardt, T. 1923 A, 500, 673.

Boulenger, G. A. 1901 D, 348.

1904 A, 162, 174.

1904 D, 636

1919 A, 44 ("percesoces").

Cockerell, T. D. A. 1910 E, 48

1913 B, 136

Cope, E. D. 1871 T, 456.

1891 N, 25

Cunningham, J. T. 1912 A, 247.

Dean, Gudge, Henn. 1923 A, 694.

Derjugin, K. 1909 A.

1910 A, 620.

Dietz, P. A. 1917 A, 86.

Dollo, L. 1909 B (138)

Fowler, H. W. 1911 A, 169.

Gill, T. 1873 F, 10 (> Mugiloides).

1885 C, 176.

Goodrich, E. S. 1909 A, 419 (Mugiliformes).

Gregory, W. K. 1907 D, 452, 497.

Günther, A. C. 1881 A, 690 (Mugiliformes).

Hubbs, C. L. 1919 B, 66

Jaekel, O. 1911 A, 94

Jordan, D. S. 1904 A, 598

1905 A, ii, 215, 585

1907 B, 424, 432, 765.

1923 A, 177.

Jordan and Hubbs. 1919 A, 6

Meek, A. 1916 A, 199

Regan, C. T. 1903 B, 460.

1909 B, 79 (Percesoces Mugiloides).

1912 B, 842, 846

1913 B, 111 (Mugiloides).

Schlesinger, G. 1909 A (147, 151)

Stannius, H. 1854 A (Mugiloides).

Staiks, E. C. 1916 A, 26

Whitehouse, R. H. 1910 B, 606

Woodward, A. S. 1898 B, 120

1901 A, 347

Zittel and Schlosser. 1923 A, 135 (Mugiliformes).

ATHERINIDÆ Bonaparte.

Bonaparte, C. L. 1838 B, 132

Ardt, T. 1907 D, 640

1923 A, 673 ("atheriniden").

Baudelot, E. 1873 A, 101 ("athérines").

Boulenger, G. A. 1904 D, 637, 639.

1917 B, 329

1919 A, 44

Cockerell, T. D. A. 1910 E, 47.

1913 B, 146

Cope, E. D. 1871 T, 457.

1872 C, 328, 338.

Dean, Gudge, Henn. 1923 A, 645.

Gill, T. 1885 C, 178

Goodrich, E. S. 1909 A, 419.

Günther, A. C. 1861 A, 391.

1880 A, 500.

1881 A, 690

Hubbs, C. L. 1926 A, 64.

Hubbs, C. L. 1905 A, i, 290, ii, 215

Jordan, D. S. 1907 A, 131

1921 A, 268.

1923 A, 177

Jordan and Evermann. 1896 A, 788

Jordan and Gilbert. 1882 A, 404

Jordan and Hubbs. 1919 A, 5, 7.

Klein, E. F. 1879 A, 99

1884 A, 135, 221

1885 A, 109, 112, 140

1886 A, 213, 249, 283 (Atherina).

Meek, A. 1916 A, 203.

Owen, R. 1845 B, 120

Pouchet, G. 1878 A, 54, figs. (Atherina)

Regan, C. T. 1912 B, 847

Shepherd, C. E. 1916 A, 204.

Siebenrock, F. 1901 A

Woodward, A. S. 1901 A, 358

ZANTECLITES Jordan and Gilbert. Type *Z. hubbsi* Jordan and Gilbert.

Jordan and Gilbert. 1919 A, 39

Hubbs, C. L. 1924 A, 178.

Jordan, D. S. 1921 A, 268.

Jordan and Hubbs. 1919 A.

Zanteclites hubbsi Jordan and Gilbert.

Jordan and Gilbert. 1919 A, 39, pl. xv, fig. 3;

pl. xvi

Jordan, D. S. 1921 A, 268, pl. xxix.

1925 B, 44

Miocene (Monterey); California

SPHYRÆNIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 90, 102.

Hay, O. P. 1902 A, 399

Agassiz, L. 1844 D, 142 ("sphyrenoides")

1845 B, 300 ("sphyrenoides").

Ardt, T. 1907 D, 151, 280

1923 A, 674 ("sphyreniden").

Bonaparte, C. L. 1833 B, 1197.

1838 B, 133

Boulenger, G. A. 1904 A, 175.

1904 D, 642

1917 B, 329

1919 A, 44.

Bridge, T. W. 1896 A, 569.

Carus, V. 1875 A, 543 (Sphyrænoider)

Cockerell, T. D. A. 1913 B, 146.

Cunningham, J. T. 1912 A, 246, 247.

Cuvier, G. 1815 A, 110 ("sphyrènes").

Dean, Gudger, Henn. 1923 A, 589, 645.

Dietz, P. A. 1917 A, 86.

Fitzinger, L. J. 1873 A, 35 (Sphyrænæ).

Fowler, H. W. 1911 A, 169.

Giebel, C. G. 1855 A, 104 (Sphærænoider)

Goodrich, E. S. 1909 A, 419

Gudger, E. W. 1918 A, 100.

Hoernes, R. 1886 A, 537.

Jordan, D. S. 1905 A, ii, 222, 593.

Jordan, D. S. 1907 B, 437.

1923 A, 178.

Jordan and Gilbert 1882 A, 410.

Jordan and Hubbs 1919 A, 6.

Klein, E. F. 1879 A, 91.

1884 A, 135.

1885 A, 109, 199.

Leunis and Ludwig 1883 A, 696.

Meckel, J. F. 1825 A (Sphyræna)

Meek, A. 1916 A, 207.

Owen, R. 1866 A

Regan, C. T. 1912 B, 846

Schlosser, M. 1917 A, 142 ("sphyraeniden")

Schubert, R. J. 1906 A, 650

Terra, P. 1911 A, 217

Wallace, A. R. 1876 A, ii, 429.

Woodward, A. S. 1901 A, 365

Zittel and Schlosser 1923 A, 136

SPHYRÆNA RÖSC. Type *Esox sphyraena* Linn.

Rösch, A. F. 1793, *Synonymia Nom. Pisc.*, ed ii, 112.

Hay, O. P. 1902 A, 400.

Abel, O. 1912 F, 513.

Allis, E. P. 1909 A, 214.

Arlt, T. 1923 A, 674.

Boulenger, G. A. 1904 D, 642.

1919 A, 44.

Bridge, T. W. 1896 A, 569, pl. xxiii.

Bronn, H. G. 1848 B, 1171.

1849 A, 675.

Cockerell, T. D. A. 1913 B, 146.

Dean, Gudger, Henn. 1923 A, 395, 574, 645.

Gervais, P. 1859 A, 514, pl. lxxviii.

Giebel, C. G. 1855 A, 104, pl. xlii, fig. 9.

Gudger, E. W. 1918 A, 55, 101, pls. i-vii.

Jordan, D. S. 1905 A, ii, 223, 593.

1907 B, 438.

1917 A, 43, 52, 58.

Jordan and Evermann 1917 A, 43, 52, 58.

Jordan and Gilbert 1882 A, 410.

Klein, E. F. 1879 A, 91.

1884 A, 139, 181, 184, 199, 212, pl. ii.

1885 A, 111, 135, 168, 228.

Klein, E. F. 1886 A, 210, 242, 279, figs 19, 39

Leunis and Ludwig 1883 A, 696.

Owen, R. 1845 B, 126, pl. lxx

1848 B, 46

1866 A

1868 A, 909

Priem, F. 1914 B, 255, fig. 22 ("otolithus").

Ridewood, W. G. 1896 A, 384, 386

1904 A, 59

Schlesinger, G. 1909 A (144)

Starks, E. C. 1899 B, 114

Stephan, P. 1898 A, 359.

1900 A, 314, 409

Woodward, A. S. 1901 A, 366.

Sphyræna major Leidy.

Hay, O. P. 1902 A, 400.

Woodward, A. S. 1901 A, 368

Pleistocene; South Carolina

Sphyræna sp. indet.

Gidley, J. W. 1926 F, 192, pl. lxxi (Saurodon

Genus doubtful) Upper Cretaceous (Ripley);

Tennessee

Order SELENICHTHYES Boulenger.

Boulenger, G. A. 1904 A, 173.

Boulenger, G. A. 1904 D, 627.

Goodrich, E. S. 1909 A, 475.

Frost, G. A. 1927 A, 439 (Allotriognathi).

Jordan, D. S. 1905 A, ii, 243.

1907 B, 458

1921 A, 265.

1923 A, 166.

Regan, C. T. 1909 B, 80 (Lamproidei)

Suborder LAMPRIDIFORMES Goodrich.

Goodrich, E. S. 1909 A, 475.

LAMPRIDIDÆ Gill.

Gill, T. 1872 C, 9

Boulenger, G. A. 1904 D, 627, 628.

Dean, Gudger, Henn. 1923 A, 590, 644.

Frost, G. A. 1927 A, 439 (Lampridæ).

Jordan, D. S. 1905 A, ii, 10, 243.

Jordan, D. S. 1907 B, 459.

1921 A, 265 (Lampridæ).

1923 A, 166 (Lampridæ).

Jordan and Evermann 1896 A, 953

Jordan and Gilbert 1882 A, 453.

DIATOMCEA Jordan and Gilbert. Type *D. zatima* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 58.

Jordan, D. S. 1920 C, 569.

Jordan, D. S. 1921 A, 264.

Jordan and Gilbert 1920 A, 50

Diatomoea zatima Jordan and Gilbert.

Jordan and Gilbert 1919 A, 58, pl. xxiv, fig. 3.

Jordan, D S 1920 B, 472, fig 3 (Lampris).

Jordan, D S 1921 A, 265, pl 4, fig b. pl. xxxii.
1927 B, 90.

Jordan and Gilbert 1920 A, 40, pl xiv
Miocene (Monterey); California.

LAMPRIIS Retzius. Type *Zeus guttatus* Brunnich.

Retzius, A J 1799, Nya Handling, iii, 91.

Boulenger, G. A. 1904 D, 629.

Dean, Gudger, Henn 1923 A, 589, 644.

Frost, G. A. 1927 A, 439, pl. viii.

Goodrich, E S 1909 A, 475.

Gunther, A C 1860 A, 415, 416.

Hubbs, C L 1924 A, 178.

Jordan, D S 1905 A, ii, 244, fig 194.

1907 B, 132, 458, figs. 84, 363.

Jordan, D S 1920 B, 470.

1921 A, 266.

1923 A, 173.

Jordan and Evermann 1896 A, 954.

1917 A, 54.

Because of the close relationship of *Lampria* to *Diatomoea* citations to the literature of the former are given.

Order THORACOSTEI Swinnerton.

Swinnerton H H 1902 A, 585 (March).

Hay O P. 1902 A, 396 (Phthimobranchii June 9)

Boulenger, G A 1902 A, 151 (Catosteomi August)

1904 D, 626 (Catosteomi).

Dietz P. A 1917 A, 87 (Cateostomi).

Eastman, C R 1911 C, 360.

Goodrich, E S 1909 A, 410 (Gasterosteiformes).

Gregory, W K 1907 D 452, 493 (Thoracostraci).

Jordan, D S 1903 A 136 (Phthimobranchii).

1905 A, ii, 227-240 (Phthimobranchii)

1907 B, 442 (Phthimobranchii)

Raither, M 1913 A, 1102 (Catosteomi)

Regan, C T 1909 B, 78, 84.

1912 B, 845

Whitehouse, R H 1910 B, 605 (Catosteomi)

Zittel and Schlosser 1923 A, 133 (Gasterosteiformes).

Suborder GASTEROSTEIFORMES Gill.

Gill T. 1872 C, 13.

Unless otherwise indicated the writers, as cited, use for this group the name *Hemibranchia*

Hay O. P. 1902 A, 396.

Allis, E. P 1909 A, 195.

Boulenger, G. A. 1902 A, 149.

Cope, E D 1871 T, 456.

1891 N, 25.

Dean, Gudger, Henn 1923 A, 550, 589, 644.

Gill, T. 1884 E, 154.

1885 C, 280

Goodrich, E S 1909 A, 410-412 (Gasterosteiformes)

Gregory W K 1907 D, 452

Gunther, A C 1880 A 504 (Gasterosteiformes).

Hubbs, C L 1919 B, 61.

Jordan, D S 1904 A, 598.

1907 B, 442, 765.

1923 A, 173

Jordan and Gilbert 1882 A, 387

Meek, A 1916 A 187.

Regan, C T 1912 B, 845 (Gasterosteoiden)

1913 A, 172, 182 (Gasterosteoiden)

Starks, E C 1902 A, 619, 623.

1904 B, 601 ("hemibranchs").

Whitehouse, R. H 1905 B, 605

Woodward, A. S. 1901 A, xi, 369.

GASTEROSTEIDÆ, new form.

Gill T 1872 C, 13 (Gasterosteoiden).

1884 E, 154 (Gasterosteoiden).

Starks, E C. 1902 A, 623 (Gasterosteoiden).

GASTEROSTEIDÆ Bonaparte.

Bonaparte, C L. 1838 B, 133.

Hay, O P 1902 A, 397.

Abel O 1912 F, 565 (Gasterosteidæ).

Aldt, T 1912 A, 760.

1923 A, 520 ("gasterosteiden").

Bonaparte, C. L. 1840 A, 56.

Boulenger, G A. 1902 A, 149, 151 (Gasterosteidæ).

1904 A, 173 (Gasterosteidæ).

1904 D, 629 (Gasterosteidæ).

1917 B, 330

Carus, V 1875 A, 543 (Gasterosteidei).

Cope, E. D. 1871 T, 457.

Cunningham, J T. 1912 A, 247.

Dean, Gudger, Henn 1923 A, 644.

Dietz, P. A. 1917 A 87

Eigenmann, C H 1887 A, 233.

Fitzinger, L J. 1873 A, 34.

Fryd, C 1901 A, 24 (Gasterosteidæ).

Gill, T 1875 B, 252

1884 E, 155, 157.

1885 C, 280

Goetsch W 1920 A, 473 ("gasterosteiden").

Goodrich, E S 1909 A, 412.

Gunther, A. C 1881 A, 691.

Heilprin, A 1887 A, 68

Hoernes, R 1886 A, 537

Jordan, D S 1905 A, ii, 228, 571

1907 B, 443.

1923 A, 173.

Jordan and Gilbert 1882 A, 392.

Knaer, J 1924 A, 104

Klein E F 1886 A, 274 (Gasterosteidei).

Leunis and Ludwig 1883 A 698 (Gasterosteidæ).

Meek A 1916 A 187

Owen, R. 1886 A, 193 (Gasterosteidei).

Raither, M 1913 A, 1102.

- Regan, C T 1909 B, 24 (Gastrosteidae).
1913 A 169, 172 (Gastrosteidae).
Siebenrock F 1901 A, 107.
Starks, E C 1902 A, 619, 624, 626.

GASTEROSTEUS Linn. Type *G. aculeatus* Linn.

- Linnæus, C 1758 A, 295
Hay, O P 1902 A, 397.
Abel, O 1912 F, 104, 571, 569.
1922 F, 80
Allis E P. 1909 A, 213.
1915 A 566.
1918 A, 243
Agassiz A 1877 A, 121, pl. II, fig. 13.
Ardit, T 1923 A, 521.
Bardleben, K. 1901 A, 28.
Baudelot, E 1873 A, 94
Bertin, L 1921 A, 143.
1921 B, 623
Born, G 1827 A, 187.
Boulenger, G A 1893 C, 228.
1902 A 149
1904 D, 630
Brandt, J F 1865 A, 26.
Carlsson A 1894 A, 228.
Cuvier, G 1805 A
Dean, Gudgey Henn 1923 A, 681.
Derjugin, K M 1909 A
1910 A, 616
Edgeworth, F. H. 1926 A, 187.
Eigenmann C H 1887 A, 233.
Fryd, C 1901 A, 24
Gann M 1880 A, 143
Gaupp, E 1911 A, 414.
Geoffroy St Hilane, G 1807 B, 414.
Gill, T 1884 E, 158.
1885 C, 281, fig 156.
Goetsch W 1915 A, 460
1920 A, 13, 462 473, pl xx
Goodrich, E S 1905 A, 510, figs
Hague F. 1924 A, 276.
Hase, A 1907 A
Hay, O P 1907 C, 271.
Heilprin, A 1887 A, 68, 288.
Hubbs, C L 1926 A, 63
Huxley T. H 1859 D, 407, figs. 7, 8.
1859 H, 33, pl III, figs. 1-4.
1863 F, 191, fig 25.
Jordan D S 1905 A, II, 231, 571.
1907 A, 131 (Merriamella, type *M. doryssa* Jordan).
1907 B, 446
1910 C, 635
Jordan and Evermann 1896 A, 746.
1917 A, 13
Jordan and Gilbert 1882 A, 393.
Jungelson, H. F E 1910 A, 353.
Kner, J 1924 A, 104.
Kindred J E 1921 A, 427.
1924 A, 422.
Klein, E F 1884 A 135, 145, 181, 203, 234, 246.
1885 A, 118, 133, 235.
1886 A, 217, 253, 274.
Kner, R 1862 A, 61.
Leunis and Ludwig 1883 A, 698 (Gastrosteus).
Mayer, A. F. 1862 A, 110.
Mayhoff, H. 1914 A, 403.

- Trouessart, E. L 1906 A, 212
Wallace, A R 1876 A, II, 424
Whitehouse, R H 1910 B, 606
Woodward, A S 1901 A, XI, 370

- Meckel, J F 1825 A
Noorden, C. 1833 A, 235
Norman E W 1926 A, 401, fig 53
Owen, R 1845 B, 91
1888 A, 881
Pehrson, T 1922 A
Pouchet, G 1878 A, 35, 145
Prince E E 1885 A, 487, pl XIV.
Regan C T 1909 C, 435
1910 B, 533.
Ridewood, W G 1904 A 63 (Gastrosteus).
Roth, F 1920 A, 513
Ryder, J 1885 E, 94
1885 F 415
1886 A, 75
Schauinsland, H 1906 A
Schmalhausen, J J 1913 A 12
Schmud-Monnard, C 1883 A, 127, pl. IX
Solger B 1880 A, 378, 388
Starks, E C 1902 A 622, 626, fig 1
1916 A 24
Swinnerton, H. H 1902 A, 503, pls XXVIII-XXXI
1905 A, 319
1905 B 369, pl XXXI
1911 A, 452 ("sticklebacks").
Th'eo O 1879 A, 5, pl I
1896 A, 306 pl VIII
1896 B, 100
1898 B, 86
Uhlmann E 1921 A, 305
Ussow S 1900 A pls I-IV
Wagner, R 1843 A
Whitehouse, R H 1910 B, 605
Wilder B 1876 A, 166

Gasterosteus aculeatus bispinosus Walbaum.

- Walbaum J J 1792, Arted Pisc, 450 (G bispinosus).
Hay, O P 1902 A 397 (G bispinosus)
Ami H M 1901 C, 54 ("G sp indet." This species?)
Bertin, L 1921 B, 623 (G. aculeatus)
Dawson, J W 1872 B 403 (Gasterosteus).
1872 C 57, 99 (Gasterosteus).
1894 C, 203, 267, pl. VII, fig. 2 (G aculeatus?).
Coleman A P 1901 C, 224 (G aculeatus).
Hay, O. P 1923 A, 287 (G. aculeatus).
Jordan and Evermann 1896 A, 748 (G. bispinosus)
Lambe L M 1904 C, 39, 44 (G. bispinosus).
Regan, C T 1909 C, 435 (G. aculeatus).
Roth F. 1920 A, 513 (G aculeatus).
Recent, Labrador to New Jersey - Pleistocene (Leda clay); Ontario

Gasterosteus doryssus Jordan.

- Jordan D S 1907 A, 131, figs. 25, 26 (Merriamella).
Eastman, C R 1917 A, 291 (G. doryssus).

- Hav, O P 1907 C, 271, text-figs. 1-3 (G. williamsoni leptosomus)
 Hubbs, C L 1924 A, 177 ("Gasterosteus").
 Jordan D S 1908 A, 117
 1908 B, 811.
 Jordan and Beal 1913 A, 256
 Miocene (Lahontan), Nevada.

Order LOPHOBRANCHIA Latreille.

- Latreille* P A 1825 A, 116
 This name is usually spelled *Lophobranchia*.
 Allis, E P 1909 A, 195.
 Arldt, T. 1907 D, 663
 Bonaparte, C. L. 1831 A, 97 119
 Boulenger, G. A 1904 A, 174
 1904 D, 629
 Budge T. W. 1896 A, 578.
 Bronn, H G 1848 A 688.
 Carius, V 1875 A, 585
 Cope E D 1871 T, 457
 1872 C, 335 339
 1891 N, 25 26
 Dean, Gudger, Henn 1923 A, 687.
 Fitzinger, L J 1873 A 48
 Gill, T 1872 C, xxvix, 2
 1885 C 285
 1896 D, 153 ("lophobranchs").
 Goetsch, W. 1920 A 11, 453 ("lophobranchier")
 Goodrich E S 1909 A 414.
 Gregory, W. K 1907 D 493
 Gunther A C 1870 A, 150
 1880 A, 678
 1881 A, 688, 694
 Holland H 1850 A, 565 ('lophobranches')
 Huot, A 1902 A.
 Jordan, D S 1904 A, 598
 1905 A, ii, 235.
 1907 B, 450
 1923 A, 174.
 Jordan and Gilbert 1882 A, 381
 Jungerson, H F E 1910 A, 269
 1910 B 503
 Kaup, F 1853 A, 226
 Kern, R 1860 B, 821
 Klein, E F 1879 A, 69 ("lophobranchien")
 Meek, A 1916 A, 195
 Muller J 1845 A, 102, 130
 1846 C, 122, 131.
 Owen, R 1866 A, 12, 114, 368
 Parker W K 1868 A, 32
 Pouchet, G 1878 A, 49 ("lophobranches").
 Regan C T 1909 B, 78, 84.
 1912 B, 845
 Ryder, J 1882 A, 191 ("lophobranchiatus")
 Schlosser, M 1917 A 142 ('lophobranchier').
 Staunius, H 1854 A, 7, seq
 Stephaun P 1900 A, 295, 321 ("lophobranches")
 Zittel and Koken 1911 A, 141
 Zittel and Schlosser 1923 A, 134

SYNGNATHOIDÆ, new form.

- Gill, T 1885 C, 285 (Syngnathi) | Regan, C T 1912 A, 845 (Syngnathoidæ)

SYNGNATHIDÆ Bonaparte.

- Bonaparte, C L* 1831 A 97, 119
 Arldt T 1907 D 684.
 1923 A 521 ('syngnathiden')
 Bonaparte C L. 1838 B, 130
 Boulenger, G A 1904 A, 174
 1904 D, 757
 1917 B 330
 Bridge T W 1896 A, 578.
 Carius, V 1875 A, 585 (Syngnathoidæ).
 Cope, E D 1871 T, 457.
 1872 C, 339
 Dean Gudger, Henn 1923 A, 703.
 Fries B F 1838 A, 238 (Syngnathi).
 Gill, T 1885 C, 285
 1896 D, 153, 157.
 Goetsch, W 1915 A, 438 ("syngnathiden").
 Goodrich, E S 1909 A, 415.
 Gregory, W K 1907 D, 493.
 Gunther A C 1870 A, 153.
 1880 A, 679
 1881 A, 694.
 Holland H. 1850 A, 565 ("syngnathes").
 Huot, A 1902 A ("syngnathimens")
 Jordan, D S 1923 A, 174
 Jordan and Evermann 1898 A, 760
 Jordan and Gilbert 1882 A, 382
 Jungerson, H F E 1910 A 292, 346
 Kaup F 1853 A, 228
 Klein, E F 1884 A, 135, 150, 199, 201, 234, 244
 1885 A, 108, 109, 128, 157, 164, 197, 199, 217,
 251
 1886 A, 205, 229, 268, 273, 285, 295
 Meek, A 1916 A, 195
 Mivart, St G 1879 B, 540 ("sea-horses")
 Norman E W 1926 A.
 Owen R 1866 A
 Rauther, M 1913 A, 1016 ("syngnathiden").
 Ryder, J 1882 A, 191 ("sea-horses").
 Schmalhausen, J J 1916 C, 212
 Siebenrock, F A. 1901 A, 106.
 Staunius, H. 1854 A (Syngnathi).
 Woodward, A S. 1901 A, 380.
 Zittel and Koken 1911 A, 141 ("syngnathiden")
 Zittel and Schlosser 1923 A, 134.

SYNGNATHUS Linn. Type *S. acus* Linn.

- Linnæus, C* 1758 A, 336.
 Allis, E P 1909 A, 195, 198.
 Arldt T 1923 A, 521.
 Baudelot, E 1873 A, 94.
 Burst T P 1912 A, 613, pl xiii.
 Dean, Gudger, Henn 1923 A, 703.
 Fries, B F 1838 A, 236
 1838 B, 251
 Goetsch, W. 1915 A, 441, pl. xviii; text-figs 1
 1920 A, 11, 38 454, pl. xx
 Goodrich, E. S. 1909 A, 414.
 Gunther, A. C 1870 A, 153

- Huot, A. 1902 A, pls xxi, xxvi.
 Jordan, D. S. 1917 A, 16.
 Jordan and Evermann 1898 A, 761 (Siphostoma) 1917 A, 16.
 Jordan and C. Gilbert 1882 A, 383 (Siphostoma).
 Jordan and J. Z. Gilbert 1919 A, 34.
 Jungerson, H. F. E. 1910 A, 304, 353. 1910 B, 569.
 Kasaneff, W. 1906 A, 854, figs. 1-6.
 Kindred, J. E. 1921 A, 425, figs. 1-14. 1924 A, 421, pls 1-11.
 Kingsley, J. S. 1925 A, 92, fig. 97.
 Klein, E. E. 1885 A, 108, 157, 197, 217, 252.
 McMurrich, J. P. 1883 A, 623, pls xlii, xliii.
 Meek, A. 1916 A, 196.
 Owen, R. 1866 A, 195.
 Parker, W. K. 1888 A, 32.

- Pouchet, G. 1878 A, 34, 40, 76, 144 figs ("syngnathus")
 Rauter, M. 1913 A, 1061, fig. 5.
 Ryder, J. 1882 A, 194.
 Siebenrock, F. 1901 A, 118.
 Stannius, H. 1854 A, 75.
 Swinnerton, H. H. 1902 A, 575.
 Vogel, R. 1909 A, 534.
 Woodward, A. S. 1901 A, 382.

Syngnathus avus Jordan and Gilbert.

- Jordan and Gilbert 1919 A, 34 pl. xxviii, fig. 8.
 Duncker, G. 1923 A, 239.
 Jordan, D. S. 1921 A, 259. 1926 B, 223. 1927 A, 191.
 Miocene (Monterey); California.

Order PERCOPSOMORPHI, new name.

Unless otherwise indicated the authors, as quoted use for this family the name *Salmopercæ*. This is the plural of the genus name *Salmopercæ*.

- Boulenger, G. A. 1904 D, 620 (Part of Haplomi).
 Frost, G. A. 1926 A, 470 pl. xx.
 Goodrich, E. S. 1909 A, 425.

- Jordan, D. S. 1923 A, 164 (*Salmopercæ*); 165 (*Xenarchi*).
 Jordan and Evermann 1896 A, 782.
 Regan, C. T. 1909 B, 79, 84. 1911 C, 294. 1912 B, 842, 846.
 Jordan, D. S. 1905 A, 241. 1907 B, 456, 765.

ERISMATOPTERIDÆ.

- Jordan, D. S. 1905 A, ii, 242, 296.

- Jordan, D. S. 1907 B, 457.

ERISMATOPTERUS Cope. Type *E. rickseckeri* Cope.

- Hay, O. P. 1902 A, 404.
 Boulenger, G. A. 1902 E, 200.
 Eastman, C. R. 1917 A, 294.
 Jordan, D. S. 1903 A, 137. 1905 A, ii, 242. 1907 B, 457.

Erismatopterus endlichii Cope.

- Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Jordan, D. S. 1907 B, 457, fig. 362.
 Merrill, G. P. 1907 A, 11.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River), Wyoming.

Erismatopterus levatus Cope.

- Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Hussakof, L. 1908 A, 74.
 Jordan, D. S. 1905 A, ii, 242. 1907 B, 457.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River), Wyoming.

Erismatopterus rickseckeri Cope.

- Hay, O. P. 1902 A, 404.
 Cockerell, T. D. A. 1908 C, 176.
 Hussakof, L. 1908 A, 74.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River), Wyoming.

AMPHIPLAGA Cope. Type *A. brachyptera* Cope.

- Hay, O. P. 1902 A, 403.
 Boulenger, G. A. 1902 E, 200.
 Eastman, C. R. 1917 A, 294.
 Jordan, D. S. 1903 A, 137. 1905 A, ii, 243. 1907 B, 458.
 Zittel and Koken 1911 A, 132.

Amphiplaga brachyptera Cope.

- Hay, O. P. 1902 A, 403.
 Cockerell, T. D. A. 1908 C, 176.
 Merrill, G. P. 1907 A, 6.
 Woodward, A. S. 1901 A, 416.
 Eocene (Green River); Wyoming.

ASINEOPIIDÆ Cope.

- Cope, E. D. 1870 H, 380.
 Hay, O. P. 1902 A, 403 (*Aphrododeridæ*, part).
 Cockerell, T. D. A. 1914 A, 191.
 Jordan, D. S. 1905 A, 243, 296, 317.

- Jordan, D. S. 1907 B, 458, 532. 1923 A, 165.
 Woodward, A. S. 1901 A, 416.
 Zittel and Koken 1911 A, 132.

ASINEOPS Cope. Type *A. squamifrons* Cope.

- Hay, O. P. 1902 A, 404.
 Boulenger, G. A. 1902 E, 200. 1904 D, 656.

- Cockerell, T. D. A. 1914 A, 191.
 Eastman, C. R. 1917 A, 294.
 Haseman, J. D. 1912 A, 98.

Jordan D S. 1903 A, 137.
Zittel and Koken 1911 A, 132.

***Asineops pauciradiatus* Cope.**

Hay, O P 1902 A, 404
Cockerell, T D A 1908 C, 176
1914 A, 191.
Merrill, G P 1907 A, 6
Woodward, A S 1901 A 417
Eocene (Green River), Wyoming

***Asineops squamifrons* Cope.**

Hay O P 1902 A, 404.
Cockerell, T D A. 1908 C, 176
1914 A 191
Hussakof, L 1908 A, 63
Jordan, D S 1905 A, 243, 217
1907 B, 532
Merrill, G P 1907 A, 7
Woodward A S 1901 A 417.
Eocene (Green River), Wyoming.

APHREDODERIDÆ Gunther.

Gunther A C 1859 A 271
Hay O P 1902 A 403
Aldt, T 1907 D, 280, 284
1923 A 678 (Aphredoderus)
Bonaparte C L 1846, Cat Met Pesci Europæ,
7 (Aphredoderidæ)
Boulenger G A 1902 E 199
Cockerell T D A 1906 A, 163
1913 B, 152
1916 A 899 (Aphredoderus)
Dean, Gudger, Henn 1923 A 375 499 647 (Aphre-
doderus)
Gill, T 1875 B, 252
Goodrich, E S 1909 A 427

Jordan, D S 1905 A, u, 294, 557
1907 B, 509
1919 B 178
1923 A, 165
Jordan and Gilbert 1882 A, 460
Regan, C T 1911 C 296
1911 D 320
Schlosser, M 1917 A, 144 (aphredoderiden")
Starks E C 1904 B 603
Wallace, A R 1876 A, u 425
Woodward, A S 1901 A, 416.
Zittel and Koken 1911 A, 132 (Aphredoderidæ)
Zittel and Schlosser 1923 A, 138

TRICHOPTANINÆ Cockerell

Cockerell T D A 1913 B 152

Cockerell T D A 1908 A 573 (Trichoptanidæ)

TRICHOPTANES Cope. Type *T. hians* Cope.

Hay O P 1902 A 404
Boulenger G A 1902 E 200
Cockerell T D A 1906 A, 163
1908 A 570
Eastman C R 1917 A 294
Jordan D S 1903 A 137
Schlosser, M 1917 A, 144
***Tricophanes copei* Osborn, Scott, and
Speer.**

Hay O P 1902 A, 404
Cockerell, T D A 1906 A, 163
1908 A, 571
1908 C, 176
Woodward, A S 1901 A, 416.
Miocene (Florissant); Colorado

***Trichophanes foliarum* Cope.**

Hay O P 1902 A, 404
Cockerell, T D A 1906 A 163
1908 A, 571 figs 1, 2.
1908 C, 176
1913 B 252
Eastman C R 1917 A, 294
Jordan, D S 1910 B, 186
Merrill, G P 1907 A, 20
Woodward A S 1901 A, 416
Miocene (Florissant), Colorado

***Trichophanes hians* Cope.**

Hay, O P 1902 A, 404
Merrill G P 1907 A, 20
Tertiary ("coal shales"); Nevada

Order HETEROSOMATA Bonaparte.

Bonaparte, C L 1846 Cat Met. Pesci Europæ,
47
Boulenger G A 1902 B 302 (Zeorhombi, part)
Cockerell, T D A 1913 B, 171
Cope E D 1871 T, 456.
1872 C, 340
1891 N, 25, 26
Dean, Gudger, Henn 1923 A, 653.
Gill, T. 1861 A, 7
1872 C, 2
1885 C, 275.
Goode and Bean 1895 A, 426
Gregory, W K 1907 D, 453
Gunther, A C 1880 A, 553 (Pleuronectoider)
1881 A, 692 (Pleuronectoider)

Jordan, D S 1905 A u, 247, 481.
1907 B
1923 A 166
Jordan and Evermann 1896 A
Jordan and Gilbert 1882 A, 813
Klem, E F. 1879 A, 103 (Pleuronectoides).
Kner, R 1861 A, 235 (Pleuronectoides)
Mayhoff, H 1914 A, 389
Meek, A 1916 A, 356
Muller, J 1846 C (Anacanthini, in part)
Regan, C T 1909 B, 80
1910 C, 484, 491
1912 B, 842, 850
1913 B, 111

HIPPOGLOSSIDÆ Jordan.

Jordan, D S 1923 A, 168.
1905 A n, 489 (Hippoglossinæ).
1925 B, 17.

Jordan and Evermann 1898 A, 2605 (Hippoglossinæ)
Kyle, H M 1921 A, 75 ('flat-fishes')

ISOMMA Jordan. Type *I. pristinum* Jordan.

Jordan, D S 1927 B, 94.

Isomma pristinum Jordan.

Jordan D S 1927 B 95
Upper Miocene (Monterey), California

HIPPOGLOSSUS Cuvier. Type *H. hippoglossus* (Linnaeus).

Cuvier, G 1817, Règne Anim., ed 1, n, 221.
Gill, T. 1885 C, 276
Gunther A C 1862 A, 402
Jordan, D S 1925 B, 17
Jordan and Evermann 1898 A, 2611
Jordan and Gilbert 1882 A, 818

Kyle, H M 1921 A, 77, 89 pl vi, figs 35, 36

Hippoglossus antiquus Jordan.

Jordan D S 1924 B, 43, pl G
1925 B, 18
Miocene (Monterey), California

VORATOR Jordan. Type *Hippoglossus antiquus* (in part) Jordan.

Jordan, D S 1925 B, 17.

Vorator antiquus (Jordan).

Jordan, D S 1924 B, pl G (Hippoglossus antiquus, in part)
1925 B 18 pls viii, ix
Miocene (Monterey), California

PLEURONECTIDÆ Bonaparte.

Bonaparte C. L 1831 A, 96, 117
Abel, O 1921 A, 159 ('pleuronektiden')
Allis, E P 1909 A, 195, 214.
Ardt, T 1923 A, 692 ('pleuronektiden').
Bassoli, G G 1906 A, 46, pl n (otolith-).
Beirill, N J 1925 A, 217, figs 1-15 (Pleuronectes, Soka)
Bonaparte, C L. 1838 B, 131.
Boulenger, G A. 1902 B, 295, 303
1904 A, 183.
1904 D, 751.
1917 B, 329
Bridge, T W 1896 A, 559
Carus, V 1875 A, 554 (Pleuronectoider).
Cockerell, T D A 1913 B.
Cope, E D 1871 T, 458.
1872 C, 340
Creaser, C W. 1926 A, 53
Cunningham, J T. 1905 A, 125, pls vii-ix.
Cuvier, G 1805 A ('pleuronectes')
Dahl, K 1909 A, 760.
Deau, Gudgei Henn 1923 A, 696
Dietz, P A. 1917 A, 86.
1921 A, 433
Fitzinger L J 1873 A, 42 (Pleuronectæ).
Fulton T. W. 1906 A, 50, 69, pls 1 B, III A.
Gill, T. 1865 D, 215 (Pleuronectoidæ)
1872 C, 2.
1885 C, 276.
1889 B, 593, 606.
Goette, A 1901 A 533 ('pleuronektiden').
Goode and Bean 1895 A, 426
Goodrich, E S 1909 A, 469
Gregory, W. K. 1907 D, 499.
Gunther, A. C 1862 A, 399.
1880 A, 553.
1881 A, 692.
Hasse, C. 1872 A ('pleuronecten')

Hasse and Schwartk 1870 A, 46 ('pleuronecten')
Jordan, D S 1911 A, 432
1923 A, 169
Jordan and Evermann 1898 A, 2602
Jordan and Gilbert 1882 A, 813
Kingslev, J S 1925 A, 71, 93, 107, 108, 224, 225,
237 figs 74 98, 114, 235 (Pleuronectes)
Klem, E F 1868 A ('pleuronecten')
1868 B, 271 (Pleuronectæ)
1879 A, 123 (Pleuronecta)
1884 A, 131 137 145 193 224 241, 246
1885 A 120 142 164 182, 209, 239
1886 A, 221 256 287
Kner, R 1861 A, 235 (Pleuronectes)
Koschn, O 1844 A ('plattfische')
Kyle, H M 1921 A, 75 ('flat-fishes')
Lefebvre A F 1906 A, 551 ('pleuronectidés')
Leunis and Ludwig 1883 A 714
Mayhoff, H 1914 A, 389 ('plattfische')
Meek, A 1916 A 256, 411, 414
M Donnell R 1864 A 173
Meckel, J F 1825 A ('pleuronecten')
Norman E W 1926 A 425 (Pleuronectes)
Owen, R 1845 B, 106 ('pleuronectoids')
1848 B, 90, fig 16.
1860 E, 149
1866 A
Regan, C T 1910 C, 490, 493.
1912 B, 850.
Sauvage, H E 1872 A, 1118 ('pleuronectes')
Schodde, J C 1868 A, 378
Schlosser, M 1917 A, 142 ('pleuronektiden').
Schubert, R J 1906 A, 670.
Shepherd C E 1916 A, 178, 184
Siebenrock F 1901 A, 107.
Stannius, H 1849 A, 539 (Pleuronectes).
1854 A, 5, seq (Pleuronectides).

- Terra, P 1911 A, 213.
 Thulo, O 1899 A, 175 ("schollen").
 1901 A, 315 ("schollen").
 1902 A, 305 ("schollen").
 1902 B, 717 ("schollen").
 1920 A, 119 ("schollen").
 Thompson, W. 1865 A, 361
 Tomes, C S. 1877 A, 45
 1878 A, 45, pl iv (Pleuronectes).
 Traquair, R H. 1865 A, 263
 1865 B, 215.
 Tretjakoff, D 1925 A, 379, figs 1-4 ("pleuronectiden")

- Van Beneden, P J 1853 A, 340 ("pleuronectes")
 Wagner, R 1843 A ("schollen").
 Wallace, A R. 1876 A, ii, 440.
 Webb, W M 1905 A, 60, figs 7, 8 ("flat-fish")
 Weber, E H 1821 A, 1062 (Pleuronectes)
 Weiler, W 1922 A, 74 (otoliths)
 Williams, S R 1902 A, 1-57 ("flounders").
 Wright, E P 1878 A, 287, figs 1-3 ("flounders")
 1878 B, 150 ("flounders")
 Zittel and Koken 1911 A 128
 Zittel and Schlosser 1923 A, 149

EVESTHES Gilbert. Type *E. jordani* Gilbert.

- Gilbert J Z 1910 A, 407
 Jordan, D S 1925 B, 17.
 Jordan and Gilbert 1920 A, 37

Evesthes jordani Gilbert.

- Gilbert, J Z. 1910 A, 407, pl xlii
 Jordan, D S 1911 A, 436
 1921 A, 263, pl xxxiv.

- Jordan and Gilbert 1919 A, 58, pl xxv, xxvi
 1920 A, 37, pl xxiv.
 Miocene (Monterey), California

Evesthes hooveri Jordan.

- Jordan D S 1920, in Jordan and Gilbert, 1920
 A, 38, pl xxi
 Jordan D S 1921 A, 263, pls xi, xxxv
 Miocene (Monterey), California

ZORORHOMBUS Jordan. Type *Zororhombus veliger* Jordan.

- Jordan, D S 1920, in Jordan and Gilbert, 1920
 A, 39
 1921 A, 264

Zororhombus veliger Jordan.

- Jordan, D S 1920, in Jordan and Gilbert, 1920
 A, 39 pl xxvii
 1921 A, 264.
 1921 B, 462, figs 3, 4
 1922 D, 271, fig 1
 Miocene (Monterey), California

Order PERCOMORPHI Cope.

Cope E D 1871 T, 456

Unless otherwise indicated the authors, as quoted use for this group the name Acanthopterygii. The writers are not well agreed on the limits of the Order

- Hay, O P 1902 A, 400 (Percomorphi).
 Abel, O 1912 F, 441.
 1919 A, 157.
 Agassiz, L 1835 I, 99 ("cténoidians").
 1840 C, 105 ("cténoides")
 1844 D, 139 ("cténoides")
 1844 E, 332 ("cténoides")
 1845 C, 323 ("cténoides")
 Allis, E P. 1905 A, 464
 1907 A, 569.
 Arlitt, T. 1907 D, 635 (Acanthopteri)
 1923 A, 673 ("acanthopteren")
 Bardeleben, K. 1907 A, 36 (Acanthopteri)
 Bonaparte, C. L. 1833 B, 1197.
 Boulenger, G A 1902 B, 298 ("acanthopterygians")
 1902 C, 389
 1904 A 177 (Acanthopterygii, Percomorphi)
 1904 D, 650.
 Bridge, T W 1896 A, 560
 Bronn, H G 1849 A, 589, 830 (Acanthopteri)
 Carus, V 1875 A, 516 (Acanthopteri)
 Cockerell, T D A. 1913 B, 149 (Percomorphi),
 143 (Acanthopteri).
 Cope, E. D. 1891 N, 25, 26.
 Cunningham, J. T 1912 A, 247.

- Dan, Gudger, Henn 1923 A, 694 (Perciformes)
 Dritz, P A 1917 A, 81, 86 (Perciformes)
 Dollo, L 1909 B (137) ("acanthoptérygiens").
 Eastman C R 1905 A, 55
 1908 A, 64
 1911 A, 20, 45
 Fowler, H. W 1911 A, 168 (Acanthopteri), 175
 (Percomorphi)
 Gill, T 1885 C, 181 (Acanthopterygii).
 1905 A, 659
 Goodrich, E S 1909 A, 424
 Gregory, W K 1907 D, 452 (Acanthopteroidei,
 Acanthopterygii), 453 (Percomorphi)
 Hoernes, R 1886 A, 532 (Anarthopteri)
 Hubbs, C L 1919 B, 61
 Ihering, H 1891 C, 24 ("acanthopterygier")
 Jaekel, O 1911 A, 95
 Jordan, D S 1903 A, 171
 1905 A, ii, 258, 585 (Percomorphi)
 1907 B, 473, 765 (Percomorphi).
 1923 A, 177 (Percomorphi)
 Jordan and Gilbert 1882 A, 297 (Acanthopteri)
 Knaatsch, H 1890 A, 175 ("acanthopterygier")
 Klem, E F. 1884 A, 135, 140, 156 (Acanthopterygia)
 1886 A, 207, 236, 251, 274 ("acanthopterygien").
 Kner, R. 1860 B, 814 (Acanthopteri)
 Kostlin, O 1844 A ("acanthopterygier").
 Latreille, P A 1825 A, 128 (Acanthopterygia)
 Leunis and Ludwig 1883 A, 658 (Acanthopteri)

- Lonnberg, E. 1901 A (Acanthopterygia).
 1902 A (Acanthopteri).
 Lutken, C. 1868 C (Acanthopteri).
 Meek, A. 1916 A, 284, 414.
 Muller, J. 1845 A, 102, 130, 135 (Acanthopteri).
 1846 C (Acanthopteri).
 Owen, R. 1866 A, 112, 193 (Acanthopteri).
 Parker and Haswell 1897 A, 205 (Acanthopteri).
 Rauther, M. 1913 A, 1103.
 Regan, C. T. 1909 A, 70 (Percomorphi).
 1909 B, 80, 85 (Percomorphi).
 1912 B, 830, 843, 850 (Percomorphi).
 1913 B, 111, 113 (Percomorphi).
 Richardson, J. 1836 A, 1.
 Schlosser, M. 1917 A, 142 ("acanthopterygier").
- Stannius, H. 1854 A (Acanthopteri).
 Starks, E. C. 1908 A, 415.
 Stephan, P. 1898 A, 358 ("acanthopterygiens").
 1900 A, 292 ("acanthopterygiens").
 Terra, P. 1911 A, 216 (Acanthopteri).
 Wagner, R. 1843 A, 204.
 Whitehouse, R. H. 1910 C, 141.
 1910 H, 610.
 Woodward, A. S. 1898 B, 121 (Percomorphi).
 1901 A, xi, 384.
 1906 C, 281.
 Zittel and Koken 1911 A, 128.
 Zittel and Schlosser 1923 A, 137.
 Zittel and Woodward 1902 A, 104 (Acanthopteri).

Suborder BERYCIFORMES Günther.

- Gunther, A. C. 1880 A, 419.
 Dean, Gudge, Henn 1923 A, 590 (Berycomorphi).
 Boulenger, G. A. 1902 C, 389.
 Eastman, C. R. 1911 C, 363.
 Frost, G. A. 1927 A, 440 (Berycomorphi).
 Goodrich, E. S. 1909 A, 426.
 Gunther, A. C. 1881 A, 689.
- Jordan, D. S. 1923 A, 172 (Berycoidei).
 Leunis and Ludwig 1883 A, 674.
 Regan, C. T. 1909 B, 80 (Berycomorphi).
 1911 A, 1-9 (Berycomorphi).
 1912 B, 842, 849 (Berycomorphi).
 Woodward, A. S. 1901 A, 384.
 Zittel and Schlosser 1923 A, 137.

BERYCOIDÆ, new form.

- Hav, O. P. 1902 A, 402 (Berycoidei).
 Allis, E. P. 1909 A, 201 (Berycoidei).
 Arndt, T. 1923 A, 677 ("beryciden").
 Boulenger, G. A. 1902 E, 198 (Berycoidei).
 Cockerell, T. D. A. 1913 B, 148 (Berycoidei).
 Fitzinger, L. J. 1873 A, 29 (Berycoidei).
 Fowler, H. W. 1911 A, 172 (Berycoidei).
 Gill, T. 1885 C, 181 (Berycoidei).
 Gregory, W. K. 1907 D, 452 (Berycoidei).
 Jordan, D. S. 1905 A, ii, 250, 559 (Berycoidei).
- Jordan, D. S. 1907 B, 465, 765 (Berycoidei).
 Klem, E. F. 1879 A, 89 (Berycoidei).
 1884 A, 135, 139, 203, 245 (Berycoidei).
 1885 A, 109, 133, 165, 224 (Berycoidei).
 1886 A, 207, 237, 274 ("beryciden").
 Regan, C. T. 1909 B, 80 (Berycoidei).
 Schlosser, M. 1917 A, 140, 142 ("beryciden").
 Starks, E. C. 1904 B, 601 ("berycoid fishes").
 Woodward, A. S. 1898 C, 259 ("berycoids").
 1906 C, 281 ("berycoids").

HOPLOPTERYGIDÆ Cockerell.

- Cockerell, T. D. A. 1919 A, 186.
 Jordan, D. S. 1923 A, 172.
- Regan, C. T. 1911 A, 4 (Berycoidei).

HOPLOPTERYX Agassiz. Type *H. antiquus* Agassiz.

- Agassiz, L. 1843 B (1838), iv, 4.
 Hay, O. P. 1902 A, 402 (Beryx).
 Cockerell, T. D. A. 1919 A, 186.
 Goodrich, E. S. 1909 A, 427.
 Regan, C. T. 1911 A, 4.
 Woodward, A. S. 1901 A, 396.
 Zittel and Koken 1911 A, 131, fig. 242.
 Zittel and Schlosser 1923 A, 138, fig. 234.
- Hoplopteryx? insculptus (Cope).**
 Hav, O. P. 1902 A, 402 (Beryx).
 Cockerell, T. D. A. 1919 A, 187 (Hoplopteryx).
 Fowler, H. W. 1911 A, 173, fig. 106 (Beryx).
 Hussakof, L. 1908 A, 63, fig. 31 (Beryx).
 Jordan, D. S. 1905 A, ii, 251 (Beryx).
 Woodward, A. S. 1901 A, 386 (Beryx).
 Upper Cretaceous (Navasink, Red Bank);
 New Jersey.

TRICHIUROIDÆ, new form.

- Gunther, A. C. 1880 A, 433 (Trichiuriformes).
 1881 A, 689 (Trichiuriformes).
 Regan, C. T. 1909 A, 70 (Trichiuriformes, as "division").
- Regan, C. T. 1909 B, 86 (Trichiuriformes, as "division").
 1913 B, 111 (Trichiuroidea, as subord.)

GEMPYLIDÆ Gill.

- Gill, T. 1893 B, 97.
 1862 C, 125, 126 (Gempylinae).
 1862 D, 329 (Gempylinae).
 1893 A, 133 (Gempylinae).
- Gunther, A. 1860 A, 342 (Trichiuridæ, in part).
- Jordan, D. S. 1923 A, 180.
 Jordan and Evermann 1898 A, 877.
 Lutken, C. F. 1881 A, 7.
 Regan, C. T. 1909 A, 70.
 1909 B, 86.

THYRSITES Cuvier. Type *Scomber atun* Euphrasen.

Cuvier, G 1829, Règne Animal, ed. 2, vol. II, 200
 Aildt, T. 1923 A, 691
 Frost, G. A. 1928 B, 328, pl. XII
 Jordan and Evermann 1898 A, 878
 Jordan and Gilbert 1919 A, 41, 42.

Lutken, C. F. 1881 A, 7
 Woodward, A. S. 1901 A, 481

Thyrsites kriegeri Jordan and Gilbert.

Jordan and Gilbert 1919 A, 41, pl. XVII, fig. 2.
 Miocene (Monterey), California.

TRICHIURIDÆ Adams, Bakie, Barron.

Adams, Bakie Barron 1854 A, 98
 Hay, O. P. 1902 A, 403
 Abel, O. 1922 F, 81
 Aildt, T. 1907 D, 686
 1923 A, 690 ("trichiuriden")
 Boulenger, G. A. 1904 A, 182
 1904 D, 679
 Carus, V. 1875 A, 531 (Trichiuriden)
 Dean Gudger Henn 1923 A, 590, 593, 652
 Gill, T. 1885 C, 206
 Goodrich, E. S. 1909 A, 466
 Gunther, A. C. 1860 A, 342

Hoernes, R. 1886 A, 535
 Jordan, D. S. 1905 A, II, 287, 596
 1923 A, 180
 Jordan and Gilbert 1882 A, 421
 Klein, E. F. 1885 A, 229.
 Meek, A. 1916 A, 331.
 Priem, F. 1908 B, 137 ("trichiurides")
 Regan, C. T. 1909 A, 71.
 Schlosser, M. 1917 A, 143, 148 ("trichiuriden")
 Starks, E. C. 1911 B, 19
 Zittel and Koken 1911 A, 136
 Zittel and Schlosser 1923 A, 147

TRICHIURUS Linn. Type *T. lepturus* Linn.

Hay, O. P. 1902 A, 403
 Aildt, T. 1923 A, 690
 Dean, Gudger Henn 1923 A, 705.
 Duméril, A. 1856 A, 227 ("trichure").
 Frost, G. A. 1928 B, 328, pl. XII.
 Giebel, C. G. 1855 A, 104
 Jordan and Evermann 1917 A, 12
 Jordan and Gilbert 1882 A, 422
 Klein, E. F. 1884 A, 135, 185, 212, pl. II
 1885 A, 202, 229.
 1886 A, 243, 279

Leunis and Ludwig 1883 A, 679
 Lutken, C. F. 1881 A, 7
 Starks, E. C. 1911 B, 25.

Trichiurus lepturus Linn.

Hay, O. P. 1902 A, 403.
 1923 A, 363, 366
 Hassakof, L. 1908 A, 102.
 Recent West Indies to Virginia Quaternary,
 South Carolina

Suborder SCOMBRIFORMES Günther

Günther, A. C. 1880 A, 438.
 Aildt, T. 1923 A, 689 ("scombriformen")
 Boulenger, G. A. 1902 B, 301
 1904 A, 177, 181
 1904 D, 675
 Cunningham, J. T. 1912 A, 247
 Dean, Gudger, Henn 1923 A, 700
 Dietz, P. A. 1914 A, 124
 Eastman, C. R. 1911 C, 364.
 Goetsch, W. 1920 A, 494

Goodrich, E. S. 1909 A, 462.
 Gregory, W. K. 1907 D, 454.
 Jordan, D. S. 1923 A, 179
 Regan, C. T. 1909 A, 66, 70 (Scombroidei)
 1909 B, 81 (Scombroidei)
 1912 B, 850 (Scombroidei).
 1913 B, 111 (Scombroidei).
 Woodward, A. S. 1901 A, 418
 Zittel and Schlosser 1923 A, 145

SCOMBROIDÆ, new form.

Unless otherwise indicated the authors, as quoted, use for this group the name Scombroideæ.

Hay, O. P. 1902 A, 402.
 Cockerell, T. D. A. 1913 B, 149
 Frost, G. A. 1928 A, 329.
 Gill, T. 1872 C, 8.
 1873 F, 9
 1885 C, 182.
 Hoernes, R. 1886 A, 535 (Scombroidei)

Jordan, D. S. 1905 A, II, 258, 591
 1907 B, 473, 765.
 Lounberg, E. 1902 A (Scombroidei)
 Owen, R. 1845 B, 121 ("scomberoids").
 Rauther, M. 1913 A, 1103 (Scombriformes)
 Regan, C. T. 1909 A, 71 (Scombriformes),
 72 (Xiphiformes).
 Schleinger, G. 1909 A (152), (Scombriformes).
 Starks, E. C. 1909 A, 574 (Scombroidei)
 1910 A, 77 ("scombroids")
 1911 B, 1 ("scombroid fishes")

CYBIIDÆ Jordan.

Jordan, D S. 1925 B, 19.

THYRSION Jordan. Type *T. velox* Jordan.

Jordan and Gilbert 1920 A, 7, 17, 45.

Jordan, D. S. 1925 B, 21.

Thyrion velox Jordan.

Jordan, D S 1920, in Jordan and Gilbert 1920
A, 7, 17, pl viii (not pl. ix = *Diradus fenestralis*).

Jordan, D S 1925 B, 21, pl. x.

Miocene (Monterey), California.

THYRSOCLES Jordan and Gilbert. Type *T. kriegeri* Jordan.

Jordan and Gilbert 1920 A, 7, 19, 45.

Jordan, D. S. 1925 B, 19

Thyrsoles kriegeri Jordan and Gilbert.

Jordan and Gilbert 1920 A, 7, 20, 45, pl. xii (not
pl. xi = *Escharion townleyi*)

Jordan, D S 1921 A, 273, pl xxxvi, fig. a.

1925 B, 19, 20 (*Thyrsoles escharion* a
syn ?).

1927 B, 90

Miocene (Monterey), California

ZAPHLEGES Jordan. Type *Zaphleges longurio* Jordan.

Jordan, D S 1920, in Jordan and Gilbert, 1920
A, 23, 24.

1921 A, 271.

Zaphleges longurio Jordan.

Jordan, D S 1920, in Jordan and Gilbert, 1920
A, 24, pl. xiii.

1921 A, 271, pl xxxviii, fig. a

Jordan, D S 1925 B, 22, pl. xi.

1927 B, 90

Miocene (Monterey), California

Zaphleges vigilax Jordan.

Jordan, D S 1927 B, 90

Upper Miocene (Lompoc), California.

ESCHARION Jordan. Type *Thyrocles kriegeri* Jordan, not of Jordan and Gilbert.

Jordan, D S. 1925 B, 24.

Escharion townleyi Jordan.

Jordan, D S. 1925 B, 25

Jordan, D S., in Jordan and Gilbert, J Z
1920 A 20 pl vi (*Thyrocles kriegeri*, not of
Jordan and Gilbert)

Miocene (Monterey), California

TURIO Jordan and Gilbert. Type *Turio wilburi* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 13, 15.

Jordan, D. S. 1921 A, 223.

Turio culveri Jordan.

Jordan, D S 1925 B, 23, pl. 10.

Miocene (Monterey); California.

Turio wilburi Jordan and Gilbert.

Jordan and Gilbert 1920 A, 15 pl. vi, vii

Jordan, D S 1921 A, 273, pl xxxvii

1925 B, 23

Miocene (Monterey), California.

STARRIAS Jordan. Type *S. ischyryus* Jordan.

Jordan, D S 1925 B, 25.

Starrias ischyryus Jordan.

Jordan D S 1925 B, 25, pl. xu.

Miocene (Monterey), California.

XESTIAS Jordan. Type *X. iratus* Jordan.

Jordan, D S 1921 A, 270.

Xestias iratus Jordan.

Jordan, D S 1921 A, 270, pl iv, fig. a.

1925 B 23

Miocene (Monterey), California.

OCYSTIAS Jordan. Type *Ocystias sagitta* Jordan.

Jordan, D S 1920, in Jordan and Gilbert 1920
A, 14, 18.

Ocystias sagitta Jordan.

Jordan D S 1920, in Jordan and Gilbert
1920 A, 18, pl. x.

Jordan D S 1921 A, 273, pl xxxviii, fig. a.

1922 D, 272, fig. 3

1925 B 22

1927 B, 91

Miocene (Monterey); California.

OZYMANDIAS Jordan. Type *O. gilberti* Jordan.

Jordan, D. S. 1919, in Jordan and Gilbert 1919 A, 43
The position of this genus is obscure It may belong to the Scombridae

Ozymandias gilberti Jordan.

Jordan, D. S. 1919, in Jordan and Gilbert 1919 A, 43 (Not *O. gilberti* of Jordan and Gilbert, 1920 A, 36)
1907 A, 134, pl. xi (Luvanus sp.).
1921 A, 275, pl. xiii
Miocene; California.

SCOMBRIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 91, 107.
Abel O. 1906 C, 84.
Agassiz L. 1832 A, 142 ("scomberoiden")
Allis, E. P. 1903 B, 45, pls. i-xii (Scomber).
1909 A, 214 (Scomber)
1919 E, 366 (Scomber)
1922 B, 194, 201, 208 (Scomber)
1923 B, 124 (Scomber).
Arditt, T. 1923 A, 690 ("scombriden").
Baudelot, E. 1873 A, 101 ("scomberoides").
Bonaparte, C. L. 1833 B, 1198
1838 B, 133
Boulenger, G. A. 1904 D, 678, 755
Bridge, T. W. 1896 A, 567.
Claus, V. 1875 A, 533 (Scomberoiden).
Cockerell, T. D. A. 1910 E, 47 ("scombrids")
1913 B, 149
Cuvier, G. 1805 A ("scombres").
Dean Gudger Heim 1923 A 590, 647, 652.
Dewitz J. 1904 A 408 (Scomber).
Dietz P. A. 1914 A, 124.
Fryd C. 1901 A 21 (Scomberidae).
Fulton, T. W. 1906 A 57 pl. iii B
Gaupp, E. 1905 D, 913 (Scomber)
Gill, T. 1862 C 124 (Scombridae)
1862 D 328-329 ("scombrids")
1885 C, 191
Goetsch W. 1920 A 495
Goodrich, E. S. 1909 A 465
Günther, A. C. 1881 A, 690
Heckel, J. J. 1856 A 261 (Scomberoiden)
Jordan D. S. 1915 A n, 258 272 470
1907 A 133
1923 A, 179
1925 B, 26
Jordan and Evermann 1896 A 863.
Jordan and Gilbert 1882 A 422
Jordan and Gilbert, J. Z. 1920 A 13
King-Jey, J. S. 1925 A, 97, 112, fig. 117 (Scomber)

Klem, E. F. 1879 A, 92.
1884 A, 135, 186, 213
1885 A, 111, 136, 169, 199, 200, 202, 229.
1886 A 211, 243, 280
Kner R. 1861 A, 258 ("scombriden"); 773
(Scomberoiden)
Kostlin, O. 1844 A ("scomberoiden")
Leunis and Ludwig 1883 A, 682
M'Donnell, R. 1864 A, 172
Masternan, A. T. 1894 A, 272, pls. xi, xii
(tunny)
Meckel, J. F. 1825 A (Scomber).
Meek, A. 1916 A, 319.
Norman, E. W. 1926 A, 403 (Scomber)
Owen, R. 1845 B, 121 ("scomberoids").
1866 A (Scomberidae).
Priem F. 1908 B, 99 ("scombrides")
Regan, C. T. 1903 C, 372.
1909 A, 72
Schlosser, M. 1917 A, 142 ("scombriden")
Shepherd C. E. 1910 B, 297
1912 A 455
Siebenrock, F. 1901 A, 107.
Stannius, H. 1849 A, 540 ("scombroiden")
1854 A, 4, seq. (Scomberoiden)
Staiks, E. C. 1909 A, 573
1910 A, 77, 79 (Scombrinae)
1911 B 11, 21, 27
1916 A, 27.
Stephan P. 1900 A, 286 (Scomber)
Stonis R. 1892 A 2 ("scombrides")
Terra P. 1911 A, 216
Wallace A. R. 1876 A, n, 429
Weiler, W. 1922 A, 77 (otoliths)
Whitehouse, R. H. 1918 A, 138 (Scomber).
Woodward A. S. 1901 A, 451
Zittel and Koken 1911 A, 139.
Zittel and Schlosser 1923 A, 146

AUXIDES Jordan. Type *Thynnus propterygius* Agassiz.

Jordan, D. S. 1919 A, 10, 43
Hubbs C. L. 1924 A 178
Jordan and Gilbert 1920 A, 13.

Auxides bruntoni Jordan.

Jordan D. S. 1921 A, 270 pl. ix, fig. a
Miocene (Monterey); California

Auxides dasson Jordan.

Jordan, D. S. 1921 A, 269, pl. iii, fig. b, pl. xiii, fig. a
Miocene (Monterey); California.

Auxides sanctæ-monicæ Jordan.

Jordan D. S. 1919 A, 5, 10, pl. v, fig. 2.
1921 A, 268
Miocene (Soledad); California

SPHYRÆNODUS Agassiz.

Hav O. P. 1902 A, 399 (Dietyodus).
Brown, H. G. 1848 B, 1171.
Fowler, H. W. 1911 A, 170 (Dietyodus).
Gebel, C. G. 1855 A, 104.

Type *S. priscus* Agassiz.

Leiche M. 1905 A, 152
1906 C, 422
1910 D, 319, fig. 121.
Priem, F. 1908 B, 91.

Stephan, P. 1900 A, 409.

Toula, F. 1905 A, 64.

Woodward, A S 1901 A, 473

Sphyrænodus silovianus (Cope).

Hay, O P. 1902 A, 399 (Dictyodus)

Eastman, C R 1904 H, 92.

Fowler, H W. 1911 A, 170, fig. 104 (Dictyodus).

Hussakof, L 1908 A, 71, fig. 37 (Dictyodus).

Woodward, A S 1901 A, 368, 616

Miocene (Kirkwood), New Jersey.

Sphyrænodus speciosus (Leidy).

Hay, O P. 1902 A, 399 (Dictyodus)

Eastman, C R 1904 H, 92, pl. xxxii, fig. 16 (Sphyræna)

Fowler, H W. 1911 A, 171, fig. 105 (Dictyodus).

Woodward, A S 1901 A, 616 (Sphyræna).

Miocene (Calvert), Maryland. (Kirkwood), New Jersey.

XIPHIIDÆ, new form.

Gunther, A C. 1880 A, 511 (Xiphiiformes)

1881 A, 689 (Xiphiiformes).

Jordan, D. S 1923 A, 180 (Xiphiiformes)

Regan, C T. 1909 A, 72 (Xiphiiformes)

XIPHIIDÆ Richardson.

Ruhoffson, J. 1846 A, 276.

Hay, O P 1902 A, 402.

Agassiz, L 1844 D, 142 ("xiphioides").

Allis, E P 1909 A, 201, 202

Ardt, T. 1907 D, 281

1923 A, 691 ("xiphioides").

Boulenger, G A 1904 A, 182

1904 D, 681.

Bronn, H. G 1849 A, 780, seq. (Xiphioides).

Carus, V 1875 A, 533 (Xiphioides)

Carter, J. T 1919 A, 321, pl. 1 (Xiphius)

Dean, Gudge, Henn 1923 A, 652, 653

Gill, T. 1885 C, 203

Goodrich, E S 1909 A, 468.

Goode, G B 1882 A, 415

Jordan, D S 1905 A, ii, 269

1907 B, 484

1923 A, 181.

Jordan and Evermann 1926 A, 70

Jordan and Gilbert 1882 A, 419

Klem, E F 1884 A, 135, 139, 186 (Xiphiidæ)

1885 A, 138, 172, 231 (Xiphiidæ)

1886 A, 212, 246, 274, 281 (Xiphiidæ).

Leriche, M 1910 D, 332.

Leunis and Ludwig 1883 A, 678

Meek, A 1916 A, 332

Priem, F 1908 B, 99 ("xiphiidés")

1912 A, 233 ("xiphiidés").

Regan, C T 1903 C, 372

1909 A, 74

Schlosser, M 1917 A, 142, 144, 148 ("xiphioides")

Shepherd, C E 1912 A, 457.

Stromer, E 1917 A, 22

Wagner, R 1843 A (Xiphius)

Wallace, A A R. 1876 A, ii, 430

Woodward, A S 1901 A, 490.

Zittel and Koken 1911 A, 140

Zittel and Schlosser 1923 A, 148

CYLINDRACANTHUS Leidy. Type *C. ornatus* Leidy.

Leidy, J 1856 E, 12.

Hay, O P. 1902 A, 331 (Cœlorhynchus).

Ardt, T. 1923 A, 700 (Cœlorhynchus).

Bronn, H G 1849 A, 675 (Cœlorhynchus).

Fowler, H W 1911 A, 141.

Hussakof, L 1908 A, 44

Jordan, D S 1923 A, 107.

Leidy, J 1856 A, 422

Leriche, M 1905 A, 159 (Glyptorhynchus).

1906 B, 344 (Glyptorhynchus)

1906 C, 254, pl. xiv (Glyptorhynchus).

1909 A, 381.

1910 A, 471.

1910 D, 337

Newton, E T 1891 A, 101 (Cœlorhynchus).

Pratt, F 1903 A, 404 (Cœlorhynchus).

1908 B, 100, 112 (Cœlorhynchus, Glyptorhynchus).

1911 A, 44.

1911 C, 25

1912 A, 221, fig. 3.

Stromer, R. 1891 A, 157 (Cœlorhynchus).

Stromer, E. 1903 A, 29 (Cœlorhynchus).

Williamson, W. C. 1851 A, 667, 697 (Cœlorhynchus).

Woodward, A S 1912 A (1911), 192, pl. vi (Cœlorhynchus)

1917 E lxxviii (Cœlorhynchus)

Zittel and Schlosser 1923 A 149 fig. 256 (Cœlorhynchus)

Cylindracanthus acus (Cope).

Hay, O P 1902 A 331 (Cœlorhynchus)

Fowler, H W 1911 A, 142, fig. 88.

Hussakof, L 1908 A, 44, fig. 18.

Eocene (Shark River), New Jersey

Cylindracanthus ornatus Leidy.

Hay, O P. 1902 A, 331 (Cœlorhynchus)

Cope, E D 1869 M, vi, pl. x, fig. 7 (Cœlorhynchus)

Fowler, H W. 1911 A, 141, fig. 87.

Upper Cretaceous (Manassas?); New Jersey
Virginia. Eocene (Shark River); New Jersey.

Cylindracanthus sp. indet.

Tuomey, M. 1848 A, 156, 157, 166, 180 (Cœlorhynchus).

XIPHIAS Linnaeus. Type *X. gladius* Linnaeus.

- Allis, E. P. 1909 A, 202.
 Arldt, T. 1923 A, 691.
 Cuvier, G. 1815 A, 116.
 Dean, Gudger, Henn 1923 A, 707.
 Dietz P. A. 1914 A, 108, 126, figs. 14, 15.
 Duméril, A. 1856 A, 225, 375.
 Eastman, C. R. 1901 B, 111.
 1904 H, 93.
 1917 A, 298.
 Giebel, C. G. 1855 A, 104.
 Jordan, D. S. 1905 A, n, 269, 598.
 Jordan and Evermann 1926 A, 71.
 Jordan and Gilbert 1882 A, 419.
 Leriche, M. 1909 A, 381.

- Leriche, M. 1910 D, 333.
 Lutken, C. F. 1881 A, 5.
 Nopcsa, F. 1926 A, 637, fig. 2.
 Owen, R. 1848 B, 46, 52, 57, pl. 1, fig. 5.
 1866 A, 38, 107, 118, 179.
 Regan, C. T. 1924 B, 224, fig. 1.
 Shepherd, C. E. 1912 A, 458.
 Stannus, H. 1854 A, 4, 75.
 Woodward, A. S. 1901 A, 490.
 Zittel and Schlosser 1923 A, 148.

Xiphias sp. indet.

- Eastman, C. R. 1917 A, 298, pl. xvi, fig. 3.
 Phosphate beds, South Carolina.

ISTIOPHORIDÆ Jordan and Evermann.

- Jordan and Evermann 1896 A, 890.
 Hay, O. P. 1902 A, 402 (Istiophorinæ).
 Abel O. 1912 F, 586 fig. 455 (Istiophorus).
 Aildt, T. 1923 A, 691 ('histiophoriden').
 Boulenger, G. A. 1904 A, 182 (Istiophoridæ).
 1904 D, 679 (Istiophoridæ).
 Dean, Gudger, Henn 1923 A, 551, 652 (Istiophoridæ).
 Fowler, H. W. 1911 A, 176.
 Gill T. 1885 C, 203 (Istiophoridæ).

- Goodrich, E. S. 1909 A, 467 (Istiophoridæ).
 Jordan, D. S. 1905 A, n, 268 (Istiophoridæ).
 1907 B, 483.
 1923 A, 181.
 Jordan and Evermann 1926 A, 27.
 Meek, A. 1916 A, 332 (Istiophoridæ).
 Regan, C. T. 1909 A, 74 (Istiophoridæ).
 Steinhilber, G. 1922 A, 75 (Istiophoridæ).
 Zittel and Schlosser 1923 A, 148 (Istiophoridæ).

ISTIOPHORUS Lacepède. Type *Scomber gladius* Broussonet.

- Hay, O. P. 1902 A, 402.
 Abel O. 1912 F, 430, fig. 308 (Istiophorus).
 Aildt T. 1923 A, 691 (Istiophorus).
 Carter J. T. 1919 A, 321, pl. n (Istiophorus).
 Cuvier, G. 1815 A, 117 ('istiphore').
 Dean, Gudger, Henn 1923 A, 649, 652 (Istiophorus).
 Duméril, A. 1856 A, 380 (Istiophore).
 Fowler, H. W. 1911 A, 177.
 Giebel, C. G. 1855 A, 104 (Istiophorus).
 Jordan, D. S. 1905 A, n, 269.
 1907 B, 484.
 Jordan and Evermann 1926 A, 35.
 Jordan and Gilbert 1882 A, 421 (Istiophorus).
 Klem, E. F. 1884 A, 135, 139, 186, 215 (Istiophorus).
 1885 A, 112, 138, 172, 198, 204, 231 (Istiophorus).
 1886 A, 207, 212, 246, 281, fig. 43 (Istiophorus).
 Kottlin O. 1844 A.
 Leriche, M. 1906 C, 251 (Istiophorus).
 1909 A, 381 (Istiophorus).
 Lutken, C. F. 1881 A, 5 (Istiophorus).
 Owen, R. 1845 B, 121 (Istiophorus).
 1866 A, 114 (Istiophorus).
 Regan, C. T. 1909 A, 73, fig. (Istiophorus).
 Schlesinger, G. 1909 A, 152, (Istiophorus).
 Woodward, A. S. 1901 A, 495 (Istiophorus).

Istiophorus antiquus (Leidy).

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 462.
 Fowler, H. W. 1911 A, 177.
 Woodward, A. S. 1901 A, 495 (Istiophorus).
 Upper Cretaceous, New Jersey.

Istiophorus calvertensis Berry.

- Berry, E. W. 1927 C, 461, figs. 1, 2.
 Miocene (Calvert); Virginia.

Istiophorus homalorhamphus Cope.

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 463.
 Fowler, H. W. 1911 A, 178, fig. 107.
 Kummel, H. B. 1911 A, 180.
 Woodward, A. S. 1901 A, 497 (Istiophorus).
 Upper Cretaceous (Manassan), New Jersey.

Istiophorus parvulus Marsh.

- Hay, O. P. 1902 A, 402.
 Berry, E. W. 1917 C, 463.
 Fowler, H. W. 1911 A, 180.
 Kummel, H. B. 1911 A, 180.
 Woodward, A. S. 1901 A, 495 (Istiophorus).
 Cretaceous (Manassan), New Jersey.

Istiophorus robustus (Leidy).

- Hay, O. P. 1902 A, 402.
 Berry, E. B. 1917 C, 462 (Xiphias).
 Eastman, C. R. 1901 B, 111 (Xiphias).
 Hay, O. P. 1923 A, 363.
 Hussakof, L. 1908 A, 78, fig. 40.
 Woodward, A. S. 1901 A, 497 (Istiophorus).
 Quaternary? or Miocene (Ashley River marls), South Carolina.

Istiophorus rotundus A. S. Woodward.

- Woodward, A. S. 1901 A, 495, fig. 18 (Istiophorus).
 Tertiary (Phosphate beds); South Carolina.

Istiophorus sp. indet.

Wyman, J 1854 A, 260 Tertiary; Virginia.

EMBALORHYNCHUS Marsh. Type *E. kinnei* Marsh.

Hay, O P 1902 A, 403.

Fowler, H W. 1911 A, 180.

Jordan, D S 1919 B, 359 (*E. kinneyi*).**Embalorhynchus kinnei** Marsh.

Hay, O P 1902 A, 403.

Fowler, H W. 1911 A, 180.

Jordan, D S 1919 D, 359 (*E. kinneyi*).

Kummel, H. B. 1911 A, 181.

Woodward, A S 1901 A, 497.

Upper Cretaceous (Manasquan), New Jersey.

Suborder PERCIFORMES Günther.

Günther, A C. 1880 A, 374

Aldt, T 1923 A, 677 ('perciformen').

Boulenger, G A. 1895 C, 1.

Cunningham, J. T. 1912 A, 247

Eastman, C R 1911 C 374.

Frost, G. A 1927 A, 298.

Günther A C. 1881 A, 688

Rauther, M 1913 A, 1103.

Regan, C T 1909 B, 81, 85 (Percoides)

1912 B, 850 (Percoides)

1913 B, 112 (Percoides)

Whitehouse, R H 1910 B, 611.

Woodward, A S 1901 A, 494

Zittel and Schlosser 1923 A, 138

PERCOIDÆ, new form.

Hay O P 1902 A, 403 (Percoides), 405 (Scænoidea)

Bronn, H G. 1849 A, 780, seq (Percoides, Scænoidea)

Cockerell, T D A 1910 E, 47 ('percoids').

1913 B, 150 (Percoides)

Gill, T. 1872 C, 10 (Percoides)

1885 C 213 (Percoides).

Gregory, W K 1907 D 453 (Percoides)

Hoernes, R. 1886 A, 537 (Scænoidea).

Jordan, D S 1905 A, n 293 585 (Percoides).

1907 B, 508 766 (Percoides)

Lonnberg E 1902 A (Percoides Scænoidea)

Regan C T 1909 B, 81, 85 (Percoides)

1910 C, 490 (Percoides)

1912 B 850 (Percoides)

1913 B, 112 (Percoides)

Stannus H 1854 A (Percoides)

Starks E C 1909 A, 574 (Percoides)

The terms employed by the authors, as cited above, are by no means synonymous

CENTRARCHIDÆ Gill.

Gill, T 1872 C, 10

Aldt, T 1923 A, 678 ('centrarchiden').

Boulenger, G A 1895 C, 2.

1904 A, 179

1904 D, 657.

Cockerell T D A 1913 B, 150

1914 A, 191

1919 A 188

Cresser, C W. 1926 A 4.

Dean, Gudger Henn 1923 A, 673

Gill, T 1864 A, 92 ('centrarchoids').

Gill, T 1885 C, 230

Goodrich, E S 1909 A, 443

Jordan D S 1905 A n, 297, 562

1907 B, 512.

1923 A, 189

Jordan and Evermann 1896 A 984

Jordan and Gilbert 1882 A, 462

Meek A 1916 A 285

Regan, C T 1913 B, 115

1916 B, 547

Starks, R 1896 A, 212.

MICROPTERUS Lacépède. Type *M. dolomicu* Lacépède.

Lacépède, B G E 1803, Hist Nat. Poiss., iv, 325

Cockerell, T D A. 1913 B, 144 150, 151

Dean Gudger, Henn 1923 A, 689

Frost, G. A. 1927 A, 301, pl. v.

Jordan, D S 1905 A, n, 301, figs 238, 239

1907 B, 134, 516, figs 88, 407, 408

Jordan and Evermann 1896 A, 1010.

1917 A, 63

Jordan and Gilbert 1882 A 484

Shufeldt R W 1884 B 532, 749, fig

1901 E, 311, pl. xlv, text-figs 1-8

Micropterus sp. indet.

Matthew, W. D 1924 C, 68 (This genus?)

Upper Miocene (Lower Snake Creek), Nebraska

LEPOMIS Rafinesque. Type *Labrus auritus* Linnaeus.

Rafinesque C S 1819, Jour Physique, 1819, 420

Barney and Anson 1923 A, 1-16, 7 figs.

Cockerell T D A 1913 B, 150

Dean, Gudger, Henn 1923 A, 687

Hubbs, C L. 1922 A, 361, figs 2, 3, 6

Jordan, D S 1905, I, 4 fig 2, II, 301, fig 236

Jordan and Evermann 1896 A, 999.

Jordan and Gilbert 1882 A, 472

Lepomis sp. indet.

Baker, F. C 1920 A, 462 Pleistocene (Wisconsin), Illinois

Hay, O P 1923 A, 336. Pleistocene (Wisconsin); Illinois.

CENTRARCHITES Cockerell. Type *C. coloradensis* Cockerell.

Cockerell, T. D. A. 1919 A, 188.

Centrarchites coloradensis Cockerell.

Cockerell, T. D. A. 1919 A, 188, pl. xxxvi, fig. 12.

Eocene (Coalmont); Colorado.

PRISCACARIDÆ Jordan.

Jordan, D. S. 1923 A, 218.

Hay, O. P. 1902 A, 401 (Pomacentridæ).

Hasselman, J. D. 1912 A, 97 (Cichlidæ).

PRISCACARA Cope. Type *P. serrata* Cope.

Hay, O. P. 1902 A, 401.

Arlt, T. 1923 A, 687.

Cockerell, T. D. A. 1908 C, 178

1913 B, 166.

1915 A, 31.

1923 B, 2.

Eastman, C. R. 1917 A, 296.

Hasselman, J. D. 1912 A, 97.

Ihering, H. 1909 A, 289

Jordan, D. S. 1903 A, 137.

1905 A, n, 381.

1907 B, 592.

1923 A, 218.

1927 C, 147.

Meek, A. 1916 A, 313.

Regan, C. T. 1916 B, 547.

Schlosser, M. 1917 A, 144.

Toula, F. 1905 A, 69

Woodward, A. S. 1901 A, 554.

Zittel and Koken 1911 A, 133.

Zittel and Schlosser 1923 A, 142.

Priscacara clivosa Cope.

Hay, O. P. 1902 A, 401

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Jordan, D. S. 1905 A, n, 381.

1907 B, 592.

Merrill, G. P. 1907 A, 16.

Woodward, A. S. 1901 A, 554.

Eocene (Green River); Wyoming.

Priscacara cypha Cope.

Hay, O. P. 1902 A, 401.

Cockerell, T. D. A. 1908 C, 178.

Merrill, G. P. 1907 A, 16.

Woodward, A. S. 1901 A, 555.

Eocene (Green River); Wyoming.

Priscacara dartonæ Eastman.

Eastman, C. R. 1917 A, 296, pl. xxiii.

Shufeldt, R. W. 1917 C, 50, fig

Eocene (Green River), Wyoming.

Priscacara hypsacantha Cope.

Hay, O. P. 1902 A, 401.

COCKERELLITES Jordan. Type *Priscacara liops* Cope.

Jordan, D. S. 1923 A, 218.

1927 C, 147

Cockerellites liops (Cope).

Hay, O. P. 1902 A, 401 (Priscacara).

Cockerell, T. D. A. 1908 C, 178 (Priscacara).

Cockerell, T. D. A. 1908 C, 178.

Hussakof, L. 1908 A, 90.

Eocene (Green River); Wyoming

Priscacara oxyprion Cope.

Hay, O. P. 1902 A, 401

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Hasselman, J. D. 1912 A, 100.

Hussakof, L. 1908 A, 90

Merrill, G. P. 1907 A, 16.

Tanner, V. M. 1925 A, 12.

Woodward, A. S. 1901 A, 555.

Eocene (Green River), Wyoming.

Priscacara pealei Cope.

Hay, O. P. 1902 A, 401

Cockerell, T. D. A. 1908 C, 178.

Eastman, C. R. 1917 A, 296.

Merrill, G. P. 1907 A, 17

Tanner, V. M. 1925 A, 12

Woodward, A. S. 1901 A, 555.

Eocene (Green River); Wyoming, Utah.

Priscacara serrata Cope.

Hay, O. P. 1902 A, 431

Cockerell, T. D. A. 1908 C, 178

Eastman, C. R. 1917 A, 296.

Hasselman, J. D. 1912 A, 97.

Hussakof, L. 1908 A, 92.

Jordan, D. S. 1927 C, 147

Merrill, G. P. 1907 A, 17.

Toula, F. 1905 A, 69, fig. 3.

Woodward, A. S. 1901 A, 554.

Eocene (Green River); Wyoming

Priscacara testudinaria Cope.

Hay, O. P. 1902 A, 402

Eastman, C. R. 1917 A, 296.

Hussakof, L. 1908 A, 92.

Eocene (Manti); Utah.

Priscacara sp. indet.

Cope, E. D. 1884 O, 93. Eocene (Washakie); Wyoming.

Eastman, C. R. 1917 A, 296 (Priscacara).

Hussakof, L. 1908 A, 70 (Priscacara).

Jordan, D. S. 1927 C, 147 (P. liops Cope).

Merrill, G. P. 1907 A, 16 (Priscacara).

Woodward, A. S. 1901 A, 555 (Priscacara).

Eocene (Green River); Wyoming.

CHROMIDIDÆ Bonaparte.

Bonaparte, C. L. 1840 A, 296.

Unless otherwise indicated the authors, as cited, use for this family the name Cichlidæ. Chromididæ appears to be older. Citations are made to the literature of the Pomacentridæ.

Hay, O. P. 1902 A, 401 (Pomacentridæ).

Aldt, T. 1907 D, 675 (Pomacentridæ).

Boulenger, G. A. 1904 A, 180

1904 D, 670 (Cichlidæ); 672 (Pomacentridæ)

1917 B, 330

1919 A, 42 ("cichlides" or "chromides").

Cockerell, T. D. A. 1913 B, 165 (Pomacentridæ, Cichlidæ).

1915 A, 31

Cope, E. D. 1871 T, 459 (Pomacentridæ, Chromididæ)

1872 C, 343 (Pomacentridæ, Chromididæ)

Eastman, C. R. 1912 B, 372.

1917 A, 296.

Fitzinger, L. J. 1873 A, 31 (Pomacentri).

Gill, T. 1872 B, 7

1885 B, 35 (Pomacentridæ); 235 (Cichlidæ).

Goode and Bean 1895 A, 243 (Pomacentridæ).

Goodrich, E. S. 1909 A, 446 (Pomacentridæ, Cichlidæ)

Gunther, A. 1862 A, 1 (Pomacentridæ); 265 (Chromides)

Haseman, J. D. 1912 A, 97.

Jordan, D. S. 1903 A, 137 ("pomacentrids").

1905 A, n, 381, 587 (Pomacentridæ); 380, 563 (Cichlidæ).

1907 B, 591 (Pomacentridæ, Cichlidæ)

1927 C, 147 (Cichlidæ).

Jordan and Evermann 1896 A, 1512.

Jordan and Gilbert 1882 A, 607.

Kner, R. 1861 B, 143 (Pomacentrim).

Leunis and Ludwig 1883 A, 704 (Pomacentridæ).

Loomis, F. B. 1921 A, 194.

Meek, A. 1916 A, 312.

Regan, C. T. 1913 B, 112 (Pomacentridæ); 112, 130 (Cichlidæ).

1916 B, 546

1922 B, 249

Richardson, J. 1854 A, 265 (Pomacentridæ)

1856 A, 265 (Chromididæ).

Shepherd, C. E. 1913 A, 388

Stannius, H. 1854 A, 5, seq. (Chromides).

Wallace, A. R. 1876 A, n, 437.

Woodward, A. S. 1901 A, 554 (Chromidæ); 555 (Pomacentridæ)

Zittel and Koken 1911 A, 133 (Pomacentridæ)

Zittel and Woodward 1902 A, 103 (Pomacentridæ)

KINDLEIA Jordan. Type *K. fragosa* Jordan.

Jordan, D. S. 1927 C, 145.

Kindleia fragosa Jordan.

Jordan, D. S. 1927 C, 145, figs. 1-14.

Russell, L. S. 1928 B, 264

Upper Cretaceous (Paleocene, Pakapoo), Alberta

PERCIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 89, 100

Hay, O. P. 1902 A, 404

Agassiz, L. 1840 C, 110, pl. iv fig. 8 (Perca)

1844 D, 142 ("percoides")

Aldt, T. 1907 D, 672.

1912 A, 760

1923 A, 680 ("perciden")

Bassoli, G. G. 1906 A, 51, pl. n (otoliths).

Baudelot, E. 1873 A, 98, 130 (Perca).

Bonaparte, C. L. 1833 B, 1197.

1838 B, 132

Boulenger, G. A. 1895 C, 1 (Perciformes).

1904 A, 179

1904 D, 658

Brauer, A. 1914 A, 284

Bridge, T. W. 1896 A, 564.

Carlet, G. 1878 A, 8 ("perche").

Carus, V. 1875 A, 518 (Percoides).

Cockerell, T. D. A. 1913 B, 143, 153

Cunningham, J. T. 1912 A, 266.

Cuvier, G. 1805 A ("perches")

Dean, Gudger, Henn 1923 A, 694.

Dietz, P. A. 1914 A, 112

Dornitz, M. 1852 A, 62 ("perciden").

Duméril, A. 1856 A, 270 ("percoides")

Eastman, C. R. 1917 A, 294.

Fitzinger, L. J. 1873 A, 29 (Percæ).

Frost, G. A. 1927 A, 298 (Perca).

Fryd, C. 1901 A, 19.

Giebel, C. G. 1855 A, 100 (Percoides)

Gill, T. 1875 B, 252

1885 C, 227.

Goetsch, W. 1920 A, 439, 444 (Perca)

Goodrich, E. S. 1909 A, 441.

Hase, A. 1907 A

1911 B, 339 (Perca).

Hase, C. 1872 A, figs. (Perca).

Hase and Schwarck 1870 A, 30 (Perca).

Heckel, J. 1850 B, 146 ("perciden")

Hoernes, R. 1886 A, 538 (Percoides).

Hubbs, C. L. 1926 A, 58 ("percids")

Huxley, T. H. 1859 H, 37

Jordan, D. S. 1905 A, n, 304, 585.

1907 B, 519

1923 A, 186.

Jordan and Gilbert 1882 A, 486

Klaatsch, H. 1890 A, 193, 195 (Perca).

Klein, E. F. 1879 A, 69, 70, 81, 115.

1884 A, 135, 139, 181, 204.

1885 A, 133, 199.

1886 A, 205, 239, 275.

Kner, R. 1862 A, 65 (Percoides)

Kostlin, O. 1844 A ("perciden")

Kolzoff, N. K. 1896 A, 518, fig. 7 (Perca)

Leunis and Ludwig 1883 A, 660.

M'Donnell, R. 1864 A, 171

Meckel, J. F. 1825 A (Perca).

Meek, A. 1916 A, 287.

Owen, R. 1866 A, 11, 378.

Porta, A. 1905 A, 240

Priem, F 1906 B, 269, figs. 11-25.

1914 B, 246, 256, figs. 3-5, 23-31 ("percidarum").

Regan, C T 1913 B, 116

Richardson, J 1836 A, 30 (Percoideae).

Rosen, N. 1915 A, 6, pl. 1 (Perca).

Sachs, M. M 1912 A, 726

Sagemehl, M 1884 A, 102 (Perca).

Salbey, R 1868 A, 748, pl. xviii.

Scharff, R. F 1909 B, 18.

1911 A, 198

Schlosser, M 1917 A, 140 142 ("perciden").

Schubert, R J. 1906 A, 625.

Siebenrock, F. 1901 A, 106.

Stannius, H. 1849 A, 539 (Perca).

1854 A, 4, seq (Percoidei)

Starks, E. C. 1916 A, 29 ("percoid fishes").

Stephan, P. 1900 A, 301 (Perca)

Storms, R 1896 A, 212.

Supino, F 1904 A, 628.

Tomes O S. 1876 A, 262, pl. xxxi ("perch").

Vaillant, L. 1874 A, 406 ("percoides").

Wagner, R. 1843 A (Perca)

Wallace, A. R. 1876 A, ii, 425.

Weber, E H 1821 A, 1080 (Perca).

Weiler, W. 1922 A, 76 (otoliths).

Williamson, W. C 1851 A, 651, 690, pl. xxviii, figs. 10-12 ("perch").

Woodward, A. S 1901 A, 498.

Zittel and Koken 1911 A, 132

Zittel and Schlosser 1923 A, 141, figs 16, 26.

Zittel and Woodward 1902 A, 104

MIOPLOSUS Cope. Type *M. labracoides* Cope.

Hay O P 1902 A, 404

Cockerell T D A. 1908 C, 177.

Eastman C R 1917 A, 294.

Hussakof, L. 1916 C, 348

Seeley, H G 1886 A, 412

Woodward, A S 1901 A, 517.

Mioplosus abbreviatus Cope.

Hay O P 1902 A, 404

Cockerell, T D A 1908 C 177.

Hussakof, L 1908 A, 81, fig 42.

Woodward, A S 1901 A 518

Eocene (Green River), Wyoming.

Mioplosus beani Cope.

Hay O. P 1902 A, 404

Cockerell, T D A 1908 C, 177

Merrill G P 1907 A, 13

Woodward, A S 1901 A, 518

Lower Eocene (Green River), Wyoming

Mioplosus labracoides Cope.

Hay, O P 1902 A, 405.

Cockerell, T D. A 1908 C 177

Eastman, C R. 1917 A 294, pl xxi.

Hussakof L 1908 A, 81.

Jordan, D S 1905 A, ii, 315.

Meek A 1916 A, 297.

Tanner, V M 1925 A, 6.

Toula, F 1905 A, 70, fig 4

Woodward, A. S 1901 A 517.

Lower Eocene (Green River); Wyoming.

Mioplosus longus Cope.

Hay, O P 1902 A, 405

Cockerell, T D. A 1908 C 177

Eastman, C R 1917 A, 295

Merrill, G P 1907 A, 13

Woodward A S 1901 A 518.

Lower Eocene (Green River); Wyoming.

Mioplosus sauvageanus Cope.

Hay, O P 1902 A, 405

Cockerell T D A 1908 C, 177.

Woodward A S 1901 A, 518

Lower Eocene (Green River), Wyoming.

EOPERCA Jordan. Type *Mioplosus multidentatus* Cope.

Jordan D S 1919 A, 12

Eoperca multidentatus (Cope).

Hay, O P 1902 A, 405 (Mioplosus).

Eastman, C R 1917 A, 295 (Mioplosus).

Jordan, D S. 1919 A, 12.

Woodward, A S 1901 A, 518 (Mioplosus)

Tertiary (Oligocene?); Wyoming.

PLIOPLARCHUS Cope. Type *P. whitei* Cope.

Hay, O P 1902 A, 405

Cockerell, T D A 1914 A 191.

Dall and Harris 1892 A, 281

Eastman, C R. 1917 A, 295.

Jordan, D. S 1907 B, 519

Plioplarchus septemspinosus Cope.

Hay, O P. 1902 A, 405

Cockerell, T. D A. 1914 A, 191.

Dall and Harris 1892 A, 281.

Eastman, C R 1917 A, 295, pl. xxii.

Merriam, J. C. 1901 A, 308 ("Plioplarchus")

Merriam and Sinclair 1907 A, 196.

Merrill, G P. 1907 A, 16.

Woodward, A. S. 1901 A, 520.

Miocene (Mascall?); Oregon.

Plioplarchus sexspinosus Cope.

Hay, O P 1902 A, 405.

Eastman, C. R 1917 A, 295, pl xv, fig. 1

Merrill, G. P. 1907 A, 16.

Woodward, A S. 1901 A, 520.

Tertiary, North Dakota.

Plioplarchus whitei Cope.

Hay, O P 1902 A, 405.

Dall and Harris 1892 A, 281.

Eastman, C R. 1917 A, 295.

Jordan, D S 1920 C, 422 (P. whitei)

Merrill, G P. 1907 A, 16

Woodward, A S. 1901 A, 520.

Tertiary; North Dakota.

OLIGOPLARCHUS Cope. Type *O. squamipinnis* Cope.

Hay, O. P. 1902 A, 405.

Oligoplarchus squamipinnis Cope.

Hay, O. P. 1902 A, 405.

Cockerell, T. D. A. 1914 A, 191

Woodward, A. S. 1901 A, 519

Oligocene?, South Dakota.

STOMIATIDÆ Günther.

Günther, A. C. 1884 A, 424.

Boulenger, G. A. 1904 D, 570.

Jordan, D. S. 1885 A, 140.

1905 A, II, 128.

Jordan, D. S. 1923 A, 126

Jordan and Evermann 1896 A, 587.

Jordan and Gilbert 1882 A, 285

Regan, C. T. 1923 A, 614

EOSTOMIAS Jordan and Gilbert. Type *E. eximius* Jordan and Gilbert.Jordan and Gilbert, J. Z., in Jordan, D. S. 1925
B, 13.**Eostomias eximius.**

Jordan and Gilbert, J. Z., in Jordan, D. S. 1925

B 13, pl. III

Miocene (Monterey); California

POMATOMIDÆ Gill.

Gill, T. 1865, Canad. Natural., Geol. (n. s.),
246, 249

Boulenger, G. A. 1904 D.

Dean, Gudger, Henn 1923 A, 649 (Pomato-
midae)

Gill, T. 1883 F, 557.

1885 C, 182.

Jordan D. S. 1905 A, II, 278

1907 B, 493 (Cheilodipteridæ).

1923 A, 186

Jordan and Evermann 1898 A, 945

Jordan and Gilbert 1882 A, 447

Regan, C. T. 1913 B, 117

LOPHAR Jordan and Gilbert. Type *L. miocænus* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 44, 47.

Jordan, D. S. 1921 A, 277.

1925 B, 26.

Lophar miocænus Jordan and Gilbert.

Jordan and Gilbert 1919 A, 44, pl. III, fig. 2,

pls. XIV, XX

Jordan D. S. 1921 A, 277

Miocene (Monterey), California.

ELEPHENORIDÆ Jordan.

Jordan, D. S. 1919, Ann. Carnegie Mus., XII, 330 | Jordan, D. S. 1925 B, 45

ABANTIS Jordan and Gilbert. Type *A. velifer* Jordan and Gilbert.Jordan and Gilbert, J. Z., in Jordan, D. S. 1925
B, 45.**Abantis velifer** Jordan and Gilbert.Jordan and Gilbert, J. Z., in Jordan, D. S. 1925
45 pls. XX, XXI

Upper Miocene; California.

SERRANIDÆ Richardson.

Richardson, J. 1846 A, 229.

Agassiz, L. 1840 C, 103, pl. v, fig. 22 (Serranus)

Ardt, T. 1923 A, 681 ("serraniden").

Boulenger, G. A. 1895 C, 113

1901 A, 270.

1901 D, 379.

1904 D, 659, 755.

Carus, V. 1875 A, 519 (Serranina).

Cockerell, T. D. A. 1913 B, 143, 158

Dean, Gudger, Henn 1923 A, 402, 648.

Fitzinger, L. J. 1873 A, 30 (Serrani).

Geoffroy St. Hilaire, E. F. 1824 D, 422 pl. XXI
(Serranus).

Gill, T. 1872 C, 11.

1885 B, 25.

1885 C, 223.

Goodrich, E. S. 1909 A, 430.

Günther, A. C. 1859 A, 51, 81 (Serranina).

Hubbs, C. L. 1919 B, 71

Jordan D. S. 1905 A, II, 592

1907 B, 534

1923 A, 193

Jordan and Evermann 1896 A, 1126

Jordan and Gilbert 1882 A, 526.

Kesteven, H. L. 1922 A, 308

Klem, E. F. 1879 A, 81 (Serranina).

1885 A, 174 (Serranus).

Meek, A. 1916 A, 291.

Priem, F. 1906 B, 267 (Serranus).

1908 B, 112 ("serranides").

1914 B, 248, 260, figs. 7, 32-40 ("otoliths").

Regan, C. T. 1913 B, 113.

Schlosser, M. 1917 A, 142 ("serraniden")

Schmalhausen, J. J. 1916 C, 214, figs. 1-5 (Ser-
ranus)

Shepherd, C. E. 1916 A, 204.

Starks, E. C. 1909 A, 573
 Stephan, P. 1900 A 321 (Serranus)
 Storms, R. 1896 A, 211

Vaillant, L. 1874 A, 407 (Serranus).
 Zittel and Schösser 1923 A, 139

EMMACHÆRE Jordan and Gilbert. Type *E. rhachites* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 59.

Jordan, D. S. 1927 B, 93 (Referred to the Epinephalidae)

Jordan and Gilbert 1920 A, 26

Emmachære rhachites Jordan and Gilbert.

Jordan and Gilbert 1919 A, 59, pl. xxviii, fig. 2
 1920 A, 26 pl. xv

Jordan, D. S. 1921 A, 277

Miocene (Monterey), California

Emmachære rhomalea Jordan.

Jordan, D. S. 1921 A, 278, pl. xliii.

1922 D, 273, fig. 5

1925 B, 30

1927 B, 93

Jordan and Gilbert 1920 A, 26 (in part) pl. xvi (*E. rhachites*, not *E. rhachites* Jordan and Gilbert, 1919 A, pl. xxviii)

Miocene (Monterey), California

APOGONIDÆ Jordan and Gilbert.

Jordan and Gilbert 1882 A, 563

Dean, Gudger, Henn 1923 A, 375, 579, 601 (Apogon)

Frost, G. A. 1927 A, 302, pl. v.

Gunther, A. C. 1859 A, 222 (Apogonina).

Jordan, D. S. 1905 A, ii, 316

1907 B, 531

1923 A, 188

Jordan and Evermann 1896 A, 1105 (Cheilodipterinae)

Shepherd, C. E. 1916 A, 183, 204 (Apogon)

ERITIMA Jordan and Gilbert. Type *E. evides* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 40

Eritima evides Jordan and Gilbert.

Jordan and Gilbert 1919 A, 40, pl. xxviii, fig. 1

Jordan, D. S. 1921 A, 277, pl. xlii

Miocene (Monterey), California

CARANGIDÆ Günther.

Gunther, A. C. 1860 A, 417.

Hay, O. P. 1902 A, 403

Abel, O. 1912 F, 127 ('carangiden')

Allis, E. P. 1909 A, 201.

Aldrich, T. 1907 D, 643.

1923 A, 689 ('carangiden')

Boulenger, G. A. 1902 B, 299.

1904 A, 161

1904 D, 677.

1917 B, 329

Bridge, T. W. 1896 A, 569.

Carus, V. 1875 A, 532 (Carangoides)

Cockrell, T. D. A. 1913 B, 149

Dean, Gudger, Henn 1923 A, 590, 651, 652

Dietz, P. A. 1914 A, 124.

Fitzinger, L. J. 1873 A, 33 (Caranges)

Frost, G. A. 1927 A, 302 pl. v.

Fryd, C. 1901 A, 21.

Gill, T. 1883 G, 487, 492

1885 B, 35

1885 C, 187.

Goodrich, E. S. 1909 A, 464.

Gunther, A. C. 1881 A, 689.

Jordan, D. S. 1905 A, ii, 272, 561.

1907 B, 487.

1923 A, 184.

Jordan, D. S. 1925 B, 26

Jordan and Gilbert 1882 A, 430

Klein, E. F. 1824 A, 135, 139, 181, 213

1885 A, 109, 138, 163, 199, 200, 203, 231

(Carangidæ, Carangina)

1886 A, 211, 244, 281

Kner, R. 1861 A, 776 ('carangiden')

Lerche, M. 1910 D, 305.

Leunig and Ludwig 1833 A, 680

Meek, A. 1916 A, 315

Regan, C. T. 1909 A, 67, 68

1912 B, 850

1913 B, 118

Schlosser, M. 1917 A, 139, 140, 142 ('carangiden')

Shepherd, C. E. 1911 A, 138

Siebenrock, F. 1901 A, 107

Starks, E. C. 1909 A, 572

1911 B, 27

1916 A, 28

Toula, F. 1905 A, 75

Wallace, A. R. 1876 A, ii, 429

Woodward, A. S. 1901 A, 418, 427

Zittel and Koken 1911 A, 137

Zittel and Schlosser 1923 A, 145

Zittel and Woodward 1902 A, 107.

CARANX Lacépède. Type *Scomber carangus* Bloch.

Lacépède, B. G. 1802, Hist. Nat. Poissons, iii, 57.

Cockrell, T. D. A. 1913 B, 149, pl. xxxvi, fig. 27.

Dean, Gudger, Henn 1923 A, 673

Dietz, P. A. 1914 A, 125, fig. 13.

Edgeworth, F. H. 1926 A, 186.

Fryd, C. 1901 A, 21.

Goetsch, W. 1920 A, 494, pl. xxii.

Hay, O. P. 1923 A, 383

Jordan and Evermann 1896 A, 915.

1917 A, 60.

Jordan and Gilbert 1882 A, 433, 970.

Klem, E. F. 1879 A, 95.

1886 A, 244

Lutken, C. F. 1881 A, 114

Meek, A. 1916 A, 315.

Owen, R. 1845 B, 121

Shepherd, C. E. 1910 B, 292, pl. 1, fig. 7.

1911 A, 140

Siebenrock, F. 1901 A, 107

Stannius, H. 1854 A

Starks, E. C. 1911 B, 32

Woodward, A. S. 1901 A, 441.

Caranx hippos Linnaeus.

Hay, O. P. 1917 E, 43

1923 A, 382

Jordan and Evermann 1896 A 920, pl. cixi, fig. 387

Siebenrock, F. 1901 A, 107.

Pleistocene; Florida

Caranx sp. indet.

Hay, O. P. 1923 A, 382 Pleistocene, Florida.

HEMICARANX Bleeker. Type *H. marginatus*.

Bleeker, P. 1862, Verh. Akad. Amsterdam, xiv, 134.

Jordan and Evermann 1896 A, 912

Hemicaranx archæus Jordan.

Jordan, D. S. 1927 B, 92

Upper Miocene (Lompoc), California

SERIODIDÆ Jordan.

Jordan, D. S. 1925 B, 26

TUNITA Jordan and Gilbert. Type *T. octavia* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 42.

Jordan, D. S. 1925 B, 29

Jordan and Gilbert 1920 A, 13

Tunita octavia Jordan and Gilbert.

Jordan and Gilbert 1919 A, 42, pl. xii, fig. 2

Jordan, D. S. 1921 A, 271, pl. xxxix.

Jordan, D. S. 1925 B, 29.

Miocene (Monterey), California

Tunita sp. indet.

Jordan, D. S. 1921 A, 271 Miocene? California

1925 B 45 Miocene (Pueblo), California

SERIOLA Cuvier. Type *Caranx dumerilii* Risso.

Cuvier, G. 1829, Règne Anim., ed. 2, ii, 218

Gill, T. 1885 C, 190.

Goodrich, E. S. 1909 A, 464

Gunther, A. C. 1860 A, 462

Jordan, D. S. 1905 A, ii, 272.

1907 B, 487

1921 A, 276.

1925 B, 26

Jordan and Evermann 1896 A, 901.

Jordan and Gilbert 1882 A, 444

Woodward, A. S. 1901 A, 444

Zittel, K. A. 1890 A, 305

Seriola sanctæ-barbaræ Jordan.

Jordan, D. S. 1921 A, 275, pls. viii, xi

Miocene (Monterey), California.

Seriola sanctæ-inezæ Jordan.

Jordan, D. S. 1925 B, 26, pl. xiii.

Miocene (Monterey), California

ALICIOLA Jordan. Type *A. starksii* Jordan.

Jordan, D. S. 1925 B, 27.

Aliciola starksii Jordan.

Jordan, D. S. 1925 B, 27, pl. xiv

Miocene (Monterey); California

LOMPOCHITES Jordan. Type *Lompochites hopkinsi* Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 30, 45

1925 B, 26, 29

Lompochites hopkinsi Jordan.

Jordan, D. S. 1920, in Jordan and Gilbert, 1920 A, 30

Jordan, D. S. 1921 A 276, pl. xli, fig. b

1922 D, 272, fig. 4.

1925 B, 29

1927 B, 92

Miocene (Monterey); California.

CORONADUS Jordan. Type *C. agilis* Jordan.

Jordan, D. S. 1925 B, 28.

Coronadus agilis Jordan.

Jordan, D. S. 1925 B, 28, pl. xiv.

1927 B, 92.

Miocene (Monterey), California.

Coronadus stocktoni Jordan.

Jordan, D. S. 1927 B, 92

Upper Miocene (Lompoc), California

IRIFERA Jordan. Type *I. ringens* Jordan.

Jordan, D. S. 1927 B, 7.

Irifera ringens Jordan.

Jordan, D. S. 1927 B, 91.

Upper Miocene (Lompoc); California.

LUTIANIDÆ Gill.

Gill, T. 1884 G, 352 (Lutjanæ, Lutjanidæ).

Cockerell, T. D. A. 1913 B, 160.

Dean, Gudger, Henn 1923 A, 590, 649 (Lutjanæ).

Gill, T. 1885 C, 222 (Lutjanidæ).

1893 A, 134 (Lutjanidæ).

Gill, T. 1893 B, 116 (Lutjanidæ).

Jordan, D. S. 1923 A, 195

Jordan and Evermann 1898 A, 1241.

Jordan and Gilbert 1882 A, 546 (Lutjanæ).

Regan, C. T. 1913 B, 120.

NEOMÆNIS Girard. Type *Lobotes cmarginatus* Baird and Girard = *Labrus griseus* Linn.

Girard C. F. 1859, Proc. Acad. Nat. Sci. Phila., 1858 (1859), 167.

Girard C. F. 1859, Mex. Bound Surv., Zool., Fishes, 18

Jordan, D. S. 1921 A, 278

Jordan and Evermann 1898 A, 1247

Neomænis hagari (Jordan and Gilbert).

Jordan and Gilbert 1919 A, 48, pl. xiv, figs. 1, 4 (Lutjanus).

Jordan, D. S. 1921 A, 278, pl. xlv.

Miocene (Monterey), California.

SPARIDÆ Bonaparte.

Bonaparte C. L. 1831 A, 91, 105

Hay, O. P. 1902 A, 405

Agassiz L. 1844 D, 142 ("sparoides").

Allis, E. P. 1909 A, 201, 202.

Aldt, T. 1907 D, 682.

1923 A, 683 ("spariden").

Bassoh G. G. 1906 A, 52, pl. II (otoliths).

Bonaparte C. L. 1833 B, 1198.

1838 B, 132

Boulenger, G. A. 1904 A, 180.

1917 B, 329

Bridge, T. W. 1896 A, 566

Brown H. G. 1849 A, 780 seq (Sparoides).

Carus V. 1875 A, 525 (Sparoides).

Cockerell T. D. A. 1913 B, 160.

Cuvier, G. 1805 A ("spares").

Dean, Gudger, Henn 1923 A, 418, 503, 650.

Dietz, P. A. 1914 A, 112.

Fitzinger, L. J. 1873 A, 31 (Spari).

Fowler, H. W. 1911 A, 181.

Fulton, T. W. 1906 A, 54

Giebel, C. G. 1855 A, 101 (Sparoides).

Gill T. 1885 C, 218.

Goetsch W. 1920 A, 439 (Sparus).

Goodrich, E. S. 1909 A, 428.

Gunther, A. C. 1881 A, 688.

Hassé, C. 1873 A, 599 ("sparoiden").

Heckel, J. 1850 B, 146 ("spariden").

Hoernes, R. 1886 A, 536 (Sparoides).

Huxley, T. H. 1859 H, 37.

Jordan D. S. 1905 A, n, 342, 593.

1907 B, 556.

1923 A, 197.

Klein, E. F. 1879 A, 69, 120 ("sparoiden").

Klein E. F. 1884 A, 135, 206.

1885 A, 109, 133, 199, 225

1886 A, 207, 239, 276

Koslin O. 1844 A ("sparoiden").

Kner R. 1862 A, 49 (Sparoides)

Leunis and Ludwig 1883 A, 670.

M. Donnell R. 1864 A, 168

Möckel J. F. 1825 A ("sparen").

Meek A. 1916 A, 301

Munroe J. H. 1917 A, 251.

Owen R. 1866 A

Pruett F. 1906 B, 273, figs. 36-37.

1908 B, 82, 100 ("sparidés")

1914 B, 264, figs. 45-52 ("otolithus").

Regan, C. T. 1913 B, 124

Schlosser, M. 1917 A, 142 ("sparden").

Schubert, R. J. 1906 A, 630.

Shepherd, C. E. 1910 A, 419

1911 A, 450

1916 A, 178, 204.

Siebenrock, F. 1901 A, 106

Stannius, H. 1854 A, 4, seq (Sparoides).

Stephan P. 1898 A, 359 ("sparidés").

1900 A, 300, 314 ("sparidés").

Terra, P. 1911 A, 216

Tomes, C. S. 1877 A, 45.

Wagner, R. 1843 A (Sparus)

Wallace, A. R. 1876 A, n, 426.

Weiler, W. 1922 A, 76 (otoliths).

Whitehouse, R. H. 1910 B, 612, pl. xlv, fig. 20

Woodward, A. S. 1901 A, 524

Zittel and Koken 1911 A, 135.

Zittel and Schlosser 1923 A, 139.

Zittel and Woodward 1902 A, 105.

CROMMYODUS Cope. Type *Phacodus irregularis* Cope.

Hay, O. P. 1902 A, 405.

Fowler, H. W. 1911 A, 182.

Jordan, D. S. 1919 B, 356.

Crommyodus irregularis Cope.

Hay, O. P. 1902 A, 405

Fowler, H. W. 1911 A, 182.

Kummel, H. B. 1911 A, 183

Woodward, A. S. 1901 A, 553

Miocene (Kirkwood); New Jersey.

ATKINSONELLA Jordan. Type *A. strigilis* Jordan.

Jordan, D S 1920, in Jordan and Gilbert, 1920
A, 41

To what family this genus belongs is somewhat uncertain.

Atkinsonella strigilis Jordan.

Jordan, D S 1920, in Jordan and Gilbert 1920
A, 41

1921 A, 281, pl v, fig b, pl xh, fig a
Miocene (Monterey), California

RHYTHMIAS Jordan and Gilbert. Type *Rhythmius starrii* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 27

Jordan, D S 1921 A, 279

Rhythmius starrii Jordan and Gilbert.

Jordan and Gilbert 1920 A, 28, pl xvii.

Jordan, D S 1921 A 279 pl. xlv

1922 D 273, fig 6

1925 B, 31

1927 B, 93

Miocene (Monterey), California

ERIQIUS Jordan. Type *E. plectrodes* Jordan.

Jordan D S 1924 B, 44

Eriquius plectrodes Jordan.

Jordan D S. 1924 B, 44, pl H

Jordan, D S 1925 B, 30, pl xv.

Miocene (Monterey) California

PLECTRITES Jordan. Type *Plectrites classeni* Jordan.

Jordan D S 1920, in Jordan and Gilbert, 1920
A, 29, 45.

1921 A, 280

Plectrites classeni Jordan.

Jordan, D S 1920, in Jordan and Gilbert, 1920
A 13 pl xviii

1921 A 280, pl xiv

1925 B, 31, pl. xvi

Miocene (Monterey), California

SCLENIDÆ Bonaparte.

Bonaparte C L 1831 A, 90, 105

Hav, O P. 1902 A, 405.

Agassiz, L. 1844 D, 142 ("scenoides")

Allw., E P 1909 A, 27 (Sciæna)

Aldt, T 1907 D, 680.

1912 A, 760.

1923 A 683.

Basoli, G G 1906 A, 47, pl n (otoliths)

Bonaparte, C. L 1833 B, 1198

Boulenger, G. A 1901 D, 384.

1904 D. 663 755

Brown, H G 1848 B, 1123 (Sciænoidea).

Carus, V 1875 A 530 (Sciænoidea)

Cockerell, T D A 1913 B, 143, 162

Cuvier, G 1805 A ('sciènes')

Denn, Gudger, Henn 1923 A, 364, 402 595.

Dietz, P A 1914 A, 112.

Duméril, A. 1856 A, 288 ("sciënoides")

Fitzinger, L J. 1873 A, 31 (Sciæna)

Gübel, C. G. 1855 A, 101 (Sciænoidea).

Gill, T. 1885 C, 213

Goodrich, E. S 1909 A, 431.

Gunther, A. 1880 A, 426 (Sciænoformes, Sciænoidea)

1881 A 689

Heckel, J 1850 B, 146 ("sciæniden").

Huxley, T H. 1859 H, 37.

Jordan, D S. 1905 A, n, 353, 591.

1907 B, 567.

1923 A, 201.

Jordan and Gilbert 1882 A, 566.

Klein, E F 1879 A, 69 ('sciænoiden').

1894 A, 135 184, 211

1885 A, 109, 111, 135, 199

1886 A 210, 242, 278

Kner, R 1862 A, 52 (Sciænoidea)

Kostlin, O 1844 A (Sciænoidea)

Leunis and Ludwig 1883 A 676

Meckel, J F 1825 A (Sciæna)

Meckel A 1916 A, 298

Owen, R 1848 B pl i fig 2 (Pristopoma)

Pruett, F 1914 B, 267 figs 53-64 (sciænadenarum', 'otolithus').

Regan C T 1913 B, 122

Richardson, J 1836 A, 61 (Sciænoidea)

Sauvage, H E 1877 A 154

Schubert, R J 1902 A 301 ('sciæniden')

1906 A, 635

Shepherd C E 1910 B, 296.

1912 A, 450.

1916 A, 178

Siebenrock, F. 1901 A, 107

Smith B 1909 A, 275

Stannius, H 1854 A, 4, seq (Sciænoidea)

Teria, P 1911 A, 216

Tomes, C S 1878 A, 38 (Sargus)

1900 A, 36 (Sargus).

Wagner, R 1843 A (Sciæna)

Wallace, A R 1876 A, n, 428

Weiler, W. 1922 A, 75 (otoliths).

Woodward, A S. 1901 A, 538

Zittel and Koken 1911 A, 132.

Zittel and Schlosser 1923 A, 139.

POGONIAS Lacepède. Type *P. fasciatus* Lacepède = *Labrus cromis* Linn.

- Hay, O P 1902 A, 405
 Arldt, T 1923 A, 683
 Boulenger G A 1904 D, 663 751
 Dean, Gudger, Henn 1923 A, 595, 650.
 Duménil, A. 1856 A, 292
 Giebel, C. G 1855 A, 101
 Gill, T 1885 B 34.
 Jordan and Evermann 1917 A, 61
 Leunis and Ludwig 1883 A, 676
 Sauvage H E 1877 A, 156.
 Smith B 1909 A, 275.

Pogonias cromis (Linn.).

- Hay O P 1902 A, 405
 Boulenger, G A 1904 D, 663 (P. chromis)
 Gunther, A C 1890 A 427, fig 187

- Jordan, D S 1905 A, ii, 357 (P. chromis)
 Smith, B 1909 A, 277, figs. 3, 4, 7-9.
 Recent, Long Island to Mexico. Pleistocene
 (Ashley River); South Carolina.

Pogonias multidentatus Cope.

- Hav O P 1902 A, 406
 Clark and Miller 1912 A, 167, 168.
 Hussakof, L 1908 A, 88, pl. v, fig 13.
 Smith, B 1909 A, 275, figs. 10-13.
 Woodward, A S 1901 A, 538.
 Miocene, Virginia

Pogonias sp. indet.

- Hay, O P 1902 A, 406. Eocene?; South Carolina.

OTOLITHIDÆ Jordan.

- Jordan D S 1921 A 282
 Arldt, T 1923 A, 683 (Otolithus)
 Boulenger G A 1901 D, 384 (Otolithus).

- Jordan, D S 1923 A, 202
 Shephard, C E 1910 B, 296, pl i, fig 17 (Otolithus)

LOMPOQUIA Jordan and Gilbert. Type *L. retropes* Jordan and Gilbert.

- Jordan and Gilbert 1919 A, 49.
 Jordan, D. S 1921 A, 282

Lompoquia retropes Jordan and Gilbert.

- Jordan and Gilbert 1919 A, 49, pl. xxiv, fig 1.
 Jordan D S 1921 A, 281, pl. xlvii.

- Jordan, D S 1922 D, 274, fig. 7
 1924 B, 47, pl. K
 1925 B, 32
 Jordan and Gilbert 1920 A, 30, pl. xix
 Miocene (Monterey); California

ARISTOSCION Jordan. Type *A. emprepes* Jordan.

- Jordan D S 1920 C, 571.
 1921 A 282

Aristoscion emprepes Jordan.

- Jordan, D S 1920 C, 571.
 1921 A, 282, 283, pl. vi, fig. b, pl. xlviii
 (A. eprepes)
 Miocene (Monterey); California.

IOSCION Jordan. Type *I. morgani* Jordan.

- Jordan D S. 1921 A, 283.

Ioscion morgani Jordan.

- Jordan, D S 1921 A, 283, pl. viii, fig. a; pl. xlix fig a
 Miocene (Monterey), California.

Suborder LABRIFORMES Regan.

Unless otherwise indicated the authors, as below quoted use for this group the name Pharyngognathi.

Regan, C T 1913 B, 112, 132 (Labriformes, as "division")

- Hay, O P 1902 A, 400.
 Arldt, T 1907 D, 672
 Bronn, H. G 1849 A, 780, seq
 Carus, V 1875 A, 546
 Cockerell T D A. 1913 B, 166
 Cope, E D 1871 T, 456.
 Fowler, H W 1911 A, 183.
 Gill, T 1873 F, 8 (Labroides)
 Greene, J R. 1861 A, 228
 Gunther, A. C 1881 A, 691.
 Jordan, D S 1905 A, ii, 384, 586.
 1907 B, 595, 768

- Jordan D S. 1923 A, 221.
 Klem, E F 1879 A, 69, 72
 1884 A, 130, 135 (Pharyngognathi)
 1885 A, 222, 234
 1886 A, 213, 274, 285 (Pharyngognathi)
 Kner, R 1861 A, 247.
 Leunis and Ludwig 1883 A, 703.
 Lonnberg, E 1901 A.
 Muller, J. 1846 C, 131, 155, 199.
 Owen, R 1866 A, 10, 11
 Parker and Haswell 1897 A, 206
 Stannius, H. 1854 A, 5, seq
 Stephan, P 1900 A, 314 ("pharyngognathes")
 Zittel and Schlosser 1923 A, 142 (Pharyngognathi).
 Zittel and Woodward 1902 A, 102.

LABRIDÆ Bonaparte.

- Bonaparte, C. L.* 1831 A, 93, 111.
Hay, O. P. 1902 A, 400.
Agassiz, L. 1844 D, 142 ("labroides")
Allis, E. P. 1909 A, 201.
Ardt, T. 1907 D, 661.
 1923 A, 688 ("labriden").
Baudelot, E. 1873 A, 101 ("labroides")
Bonaparte, C. L. 1838 B, 132.
Boulenger, G. A. 1904 A, 181.
 1904 D, 673, 744.
Bridge, T. W. 1896 A, 574.
Bronn, H. G. 1849 A, 780, seq.
Carus, V. 1875 A, 547 (Labroides)
Cockerell, T. D. A. 1913 B, 166.
Cope, E. D. 1871 T, 459.
Creaser, C. W. 1926 A, 53.
Cuvier, G. 1805 A ("labres").
 1815 A, 110 ("labres").
Dean, Gudger, Henn 1923 A, 686.
Dietz, P. A. 1914 A, 113, figs. 7, 9.
Fitzinger, L. J. 1873 A, 30 (Labri).
Fowler, H. W. 1911 A, 183.
Frost, G. A. 1928 A, 452, pl. xvii.
Fryd, C. 1901 A, 25.
Fulton, T. W. 1906 A, 61, pls. II B, v.
Gill, T. 1885 B, 35.
 1885 C, 237.
 1905 A, 656 ("wrasse").
Goedrich, E. S. 1909 A, 446.
Gunther, A. C. 1881 A, 691.
Haseman, J. D. 1912 A, 98.
Hackel, J. 1850 B, 146 ("labriden").
 1856 A, 268 (Labroides).
Hoernes, R. 1886 A, 534.
Jordan D. S. 1903 A, 137 ("labroids").
 1905 A, II, 385, 577.
 1907 B, 590.
 1923 A, 221.
Jordan and Gilbert 1882 A, 597.
Klem, E. F. 1879 A, 66, 101.
 1884 A, 130, 140, 222, 248.
 1885 A, 108, 113, 141, 172, 199, 208, 235.
 1886 A, 206, 207, 214, 250, 251, 285.
Kner, R. 1861 B, 140 (Labroides).
Kostlin, O. 1844 A ("labroiden").
Lerche, M. 1900 A, 173.
Leunis and Ludwig 1883 A, 704.
Meckel, J. F. 1825 A (Labrus).
Meek, A. 1916 A, 306.
Müller, J. 1845 A, 102, 136 (Labroides).
Mummeys, J. H. 1917 A, 251, 260.
Priem, F. 1907 C, 82, 100, 115 ("labrides")
Pouchet, G. 1878 A, 41, 145, pl. v (Labrus).
Regan, C. T. 1913 B, 132, 134.
Richardson J. 1836 A, 106 (Labroides)
Schlosser M. 1917 A, 142 ("labriden")
Schmalhausen, J. J. 1916 C, 213.
Schubert, R. J. 1906 A, 652.
Shepherd, C. E. 1910 A, 419.
 1911 A, 453.
Subenrock, C. H. 1901 A, 107.
Stannus, H. 1854 A, 5 seq (Labroides)
Terra, P. 1911 A, 215.
Wallace, A. R. 1876 A, II, 437.
Whitthouse, R. H. 1910 B, 613, pl. xlv, fig. 21.
Woodward, A. S. 1901 A, 539.
Zittel and Koken 1911 A, 133.
Zittel and Schlosser 1923 A, 142.
Zittel and Woodward 1902 A, 103.

PROTAUTOGA Leidy. Type *P. conidens* Leidy.

- Hay, O. P.* 1902 A, 401.
Protautoga conidens Leidy.
Hay, O. P. 1902 A, 401.
Clark and Miller 1912 A, 167, 168 (P. conidens)
Woodward A. S. 1901 A, 553.
 Miocene, Virginia.

PHARYNGODOPILIDÆ Cocchi.

- Cocchi, I.* 1864 A, 329.
Hay, O. P. 1902 A, 400 (Labridæ, in part)
Jordan, D. S. 1923 A, 221 (Pharyngopilidæ)
Sauvage, H. E. 1875 B, 615 (Pharyngodopilidæ,
 Phyllodidæ)

NUMMOPALATUS Rouault. Type *N. edwardsius* Rouault.

- Hay, O. P.* 1902 A, 401.
Ardt, T. 1923 A, 688.
Gervais, F. L. 1857 Mém. Acad. Sci. Mont-
 pellier, III, 515 (Labrodon).
Jordan, D. S. 1919 B, 284 (Syn. of Labrodon
 Gervais)
Lerche, M. 1900 A, 174, 176.
Priem, F. 1901 A, 497.
 1908 B, 101 (Labrodon).
Woodward, A. S. 1901 A, 541 (Syn. of Lab-
 rodon)
Zittel and Schlosser 1923 A, 142 fig. 245.
Zittel and Woodward 1902 A, 103.
Nummopalatus carolinensis (Leidy).
Hay, O. P. 1902 A, 401
Woodward, A. S. 1901 A, 543 (Labrodon)
 Tertiary (Phosphate beds), South Carolina.

PHYLLODUS Agassiz. Type *P. tohapicus* Agassiz.

- Hay, O. P.* 1902 A, 401.
Ardt, T. 1923 A, 688.
Boulenger, G. A. 1904 D, 674.
Bronn, H. G. 1849 A, 668.
Eastman, C. R. 1901 B, 112.
Fowler, H. W. 1911 A, 184.
Gervais, P. 1852 A, explan. pl. lxvii, lxviii.
 1859 A, 516, pls. lxvii, lxviii.
Giebel, C. G. 1855 A, 106, pl. xlv, fig. 9.
Jordan, D. S. 1905 A, II, 396.
Lerche, M. 1900 A, 174.
 1905 A, 165.

- Leriche, M. 1906 C, 419.
 Priem, F. 1901 A, 494.
 1908 B, 100, 115, fig. 58.
 Sauvage, H. E. 1875 B, 615 (Phylodus, Paraphylodus).
 Woodward, A. S. 1901 A, 546.
 1922 C, 105, fig. 116.
 Zittel and Koken 1911 A, 133.
 Zittel and Schlosser 1923 A, 142, fig. 244.
 Zittel and Woodward 1902 A, 103.

Phylodus curvidens Marsh.

- Hay O. P. 1902 A, 401.
 Eastman C. R. 1901 B, 111, 113.
 Fowler, H. W. 1911 A, 184.
 Kummel, H. B. 1911 A, 184.

- Woodward, A. S. 1901 A, 550.
 Miocene (Kirkwood); New Jersey.

Phylodus elegans Marsh.

- Hay, O. P. 1902 A, 401.
 Eastman, C. R. 1901 B, 112.
 Fowler, H. W. 1911 A, 184, fig. 108.
 Kummel, H. B. 1911 A, 168.
 Woodward, A. S. 1901 A, 550.
 Upper Cretaceous (Manassquan); New Jersey.

Phylodus hipparionyx Eastman.

- Eastman C. R. 1901 B, 113.
 Hay O. P. 1902 A, 401.
 Woodward A. S. 1901 A, 617.
 Eocene, Virginia.

Suborder EPHIPPIFORMES Jordan.

- Jordan, D. S. 1923 A, 205.
 Cockerell, T. D. A. 1913 B, 167.

- Stannius, H. 1854 A (Squamipennes).
 Stenmann, G. 1927 A, 450 ("squamipennes").

EPHIPPIDÆ Gill.

- Gill, T. 1872 C, 8.
 Hay, O. P. 1902 A, 400 (Chaetodontidæ).
 Boulenger, G. A. 1904 D, 668 (Chaetodontidæ).
 Cockerell, T. D. A. 1913 B, 167.
 Deau, Gudger, Henn 1923 A, 513, 650 (Ephippus).
 Frost, G. A. 1927 A, 304, pl. v.
 Gill, T. 1885 C, 203.

- Jordan, D. S. 1905 A, ii, 400 (Ephippidæ, Ilarchidæ).
 1907 B, 611 (Ephippidæ, Ilarchidæ).
 1923 A, 205.
 Jordan and Evermann 1898 A, 1666.
 Jordan and Gilbert 1882 A, 612.
 Owen, R. 1848 B, 57, 147 (Ephippus).
 Regan, C. T. 1913 B, 127.
 Stenmann, G. 1927 A, 51 ("chaetodonten").
 Woodward, A. S. 1901 A, 559 (Ephippus).

Chaetodipterus Lacépède. Type *C. plumieri* Lacépède.

- Hay, O. P. 1902 A, 400.
 Ardit, T. 1923 A, 685 (Ephippus).
 Dean, Gudger, Henn 1923 A, 415.
 Duméril, A. 1856 A, 333 (Ephippus).
 Gill, T. 1885 B, 34.
 1885 C, 209.
 Goodrich, E. S. 1909 A, 434, fig. 442 (Ephippus).
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 400, 562.
 1907 B, 611.
 Jordan and Evermann 1917 A, 64 (Chaetodipterus), 105 (Ephippus).
 Jordan and Gilbert 1882 A, 613.
 Klein, E. F. 1885 A, 225 (Ephippus).
 Kner, R. 1861 B, 129 (Ephippus).

- Kostlin, O. 1844 A (Ephippus).
 Owen, R. 1848 B, 57, 147 (Ephippus).
 Priem, F. 1908 B, 116, fig. 59 (Ephippus).
 Regan, C. T. 1913 B, 127 (Ephippus).
 Stannius, H. 1854 A (Ephippus).
 Stenmann, G. 1927 A, 51.
 Stephan, P. 1900 A, 300 (Ephippus).

Chaetodipterus faber (Brouss).

- Hay, O. P. 1902 A, 400.
 1923 A, 381.
 Jordan, D. S. 1905 A, ii, 400.
 Meek, A. 1916 A, 305 (Ephippus).
 Recent, Cape Cod to Rio de Janeiro. Pleistocene, Florida.

PLATACIDÆ Jordan.

- Jordan, D. S. 1905 A, ii, 401, 586.

- Jordan, D. S. 1923 A, 204.

PLATAX Cuvier. Type *Chaetodon teira* Bloch.

- Cuvier, G. 1817, Règne Anim., ii, 334.
 Hay, O. P. 1902 A, 403.
 Agassiz, L. 1843 B (1842), iv, 244.
 Ardit, T. 1923 A, 685.
 Bronn, H. G. 1848 B, 991.
 Duméril, A. 1856 A, 351.
 Eastman, C. R. 1901 B, 111.
 Jordan, D. S. 1903 A, 137.
 1905 A, ii, 401, 586.
 Jordan and Evermann 1917 A, 105 (In Ephippidæ).

- Klein, E. F. 1879 A, 94.
 1884 A, 215.
 1885 A, 112, 138, 171, 231.
 1886 A, 206, 245.
 Kostlin, O. 1844 A.
 Leriche, M. 1906 C, 420.
 Lutken, C. F. 1881 A, 118.
 Newton, E. T. 1882 A, 122, pl. xix, figs 1-3.
 1891 A.
 Owen, R. 1866 A, 39, 612.
 Stannius, H. 1854 A, 4.

Woodward, A. S. 1901 A, 426, 432 (In Carangidae)
 Zittel and Koken 1911 A, 137.
 Zittel and Schlosser 1923 A, 145.

Platax sp. indet.

Hay, O. P. 1902 A, 403. Pliocene?; South Carolina

Order GOBIOMORPHI, new name.

Jordan, D. S. 1923 A, 224 (Gobioidae)

Regan, C. T. 1911 H, 731 (Gobioidae).

Suborder GOBIIFORMES Günther.

Gunther, A. C. 1880 A, 483
 Ardit, T. 1923 A, 693 ("gobiiformes").
 Boulenger, G. A. 1904 A, 183.
 1904 D, 688.
 Dean, Gudger, Henn 1923 A, 657.
 Dietz, P. A. 1914 A, 129.
 Goodrich, E. S. 1909 A, 447.
 Gunther, A. C. 1881 A, 690.

Jordan, D. S. 1905 A, 11, 459 (Gobioidae).
 1907 B, 670.
 1923 A, 224 (Gobioidae)
 Regan, C. T. 1909 B, 81 (Gobioidae).
 1911 H, 729 (Gobioidae).
 1912 B, 850 (Gobioidae)
 1913 B, 111 (Gobioidae)
 Woodward, A. S. 1901 A, 587
 Zittel and Schlosser 1923 A, 143.

Superfamily GOBIOIDÆ, new form.

Dean, Gudger, Henn 1923 A, 590 (Gobioidae)
 Gill, T. 1872 C, 6 (Gobioidae)

Gill T. 1885 C, 255 (Gobioidae)
 Jordan, D. S. 1907 B

GOBIOIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 93, 110 (Gobiidae)
 Allis, E. P. 1909 A, 214.
 Ardit, T. 1907 D, 656
 Bassoli, G. G. 1906 A, 54, pl. 11 (Gobiidae, otoliths).
 Boulenger, G. A. 1904 D, 689.
 1917 B, 329
 Carus, V. 1875 A, 539 (Gobioidae).
 Cockerell, T. D. A. 1913 B, 169
 Dean, Gudger, Henn 1923 A, 682
 Fiebigler, J. 1905 A, 140 (Gobiidae)
 Gill T. 1872 C, 7.
 1885 C, 255
 Goodrich, E. S. 1909 A, 448 (Gobiidae).
 Gunther A. C. 1881 A, 1.
 1880 A, 485
 1881 A, 690.
 Jordan D. S. 1905 A, 11, 458.
 1907 B, 670
 1923 A, 224
 Jordan and Evermann 1898 A, 2188.
 Jordan and Gilbert 1882 A, 629.
 Klein, E. F. 1879 A, 96, 115.
 1884 A, 135, 147, 181, 216.
 1885 A, 118, 175, 199, 235.
 1886 A, 218, 254, 281.
 Meek, A. 1916 A, 341
 Muller, J. 1846 C, 158 (Gobioidae).

Noorden, C. 1883 A, 235 (Gobiidae)
 Norman, E. W. 1926 A, 407 (Gobiidae)
 Owen R. 1845 B, 102 (Gobioidae)
 Pouchet G. 1875 A, 293, 297 (Gobiidae)
 1878 A, 40, 55 figs (Gobiidae)
 Regan C. T. 1903 B, 460
 1911 H, 731
 Sagemehl, M. 1884 A, 4
 Schlosser M. 1917 A, 140, 143 (Gobioidae).
 Shepherd C. E. 1910 B, 295 pl. 1, fig. 5 (Gobiidae)
 1916 A, 204
 Siebenrock F. 1901 A
 Solger B. 1880 A, 376, 388 (Gobiidae)
 Stannius, H. 1854 A, 4 seq (Gobioidae)
 Staikis, E. C. 1911 A, 747
 Terra P. 1911 A, 217
 Trouessart, E. L. 1906 A, 212
 Woodward A. S. 1901 A, 587
 Zittel and Koken 1911 A, 134
 Zittel and Schlosser 1923 A, 143
Aboma antiqua* Jordan and Gilbert.
Jordan and Gilbert 1919 A, 56, pl. xxix, fig. 1.
 Duncker G. 1923 A
 Jordan D. S. 1926 B, 223 (Gobiidae?)
 1927 A, 191.
 1927 B, 97

Order COTTOMORPHI, new name.

Hay, O. P. 1902 A, 406 (Pareioptidae).
 Allis, E. P. 1907 A, 568 ("mail-cheeked fishes," Loricati).
 1909 A, 1-144 (Loricati, Craniomi).
 1922 B, 194, 207 ("mail-cheeked fishes").
 Ardit, T. 1923 A, 694 ("scleroparean").
 Belling, D. E. 1912 A, 46 (Scleroparean).
 Berg, L. S. 1906 A, 906 (Cataphracti).
 1907 A, 1 (Cataphracti).

Boulenger, G. A. 1904 D, 692 (Scleroparean).
 Cockerell, T. D. A. 1913 B, 170 (Scleroparean).
 Eastman, C. R. 1911 C, 385 (Scleroparean).
 Goetsch, W. 1920 A, 481 (Cataphracti).
 Gutberlet, J. E. 1915 A, 1 (Loricati).
 Jordan, D. S. 1903 A, 137 (Pareioptidae).
 1905 A, 11, 426, 585 (Pareioptidae).
 1907 B, 637 (Pareioptidae); 769 (Scleroparean).
 1923 A, 208 (Cataphracti).

* This name was applied, through an error, to Steindachner's *Gobius oblongus*, an Austrian fossil fish.

Kindred, J. E. 1919 A, 57 (Loricati).
 Kner, R. 1862 A, 54 (Cataphracti).
 Plate, L. 1926 A 44 (Cataphracta).
 Regan, C. T. 1913 A, 169, 170 (Scleroparei).
 1913 B, 111 (Scleroparei).

Stannius, H. 1849 A, 540 ("cataphracten").
 1854 A, 4, seq. (Cataphracti).
 Steinhmann, G. 1927 A, 80 (Cataphracti).
 Whitehouse, R. H. 1910 B, 616 (Scleroparei).

Suborder SCORPÆNIFORMES Woodward.

Woodward, A. S. 1901 A, 576.
 Jordan, D. S. 1923 A, 208

Regan, C. T. 1912 B, 850 (Scorpænoiden).
 1913 A, 169, 170 (Scorpænoiden).
 Zittel and Schlosser 1923 A, 143.

SCORPÆNOIDÆ, new form.

Hay, O. P. 1902 A, 406 (Scorpænoidea).
 Allis, E. P. 1919 E, 366 ("mail-checked fishes").
 Goodrich, E. S. 1909 A, 449 (Scorpæniformes).

Jordan, D. S. 1923 A, 208 (Scorpæniformes).
 Regan, C. T. 1912 B, 850 (Scorpænoiden).
 1913 A, 170, 174 (Scorpæniformes).

SCORPÆNIDÆ Swainson.

Swainson, W. 1838 A, n, 53, 56, 180.
 Hay, O. P. 1902 A, 406.
 Abel, O. 1906 C, 83, 84.
 Allis, E. P. 1907 A, 570 (Scorpæna).
 1909 A 214 pl. i, n (Scorpæna).
 Arldt, T. 1907 D, 681.
 1923 A, 694 ("scorpæniden").
 Boulenger, G. A. 1904 D, 694.
 Carus, V. 1875 A, 528 (Scorpænoiden).
 Cockerell, T. D. A. 1913 B, 170.
 Cuvier, G. 1815 A 110 ("scorpènes").
 Dean, Gudger, Henn 1923 A, 700.
 Dietz, P. A. 1914 A, 134, fig. 20 (Scorpæna).
 Fryd, C. 1901 A, 20.
 Fulton, T. W. 1906 A, 54.
 Gill, T. 1885 B, 35.
 1885 C, 248.
 Goodrich, E. S. 1909 A, 449.
 Günther, A. C. 1861 A 689.
 Heckel, J. 1850 B, 146 ("scorpæniden").
 Hutton, A. 1887 A 296.
 Jordan, D. S. 1905 A, n, 426, 591.
 1907 B, 637.
 1923 A, 208.
 Jordan and Evermann 1898 A, 1758.
 Jordan and Gilbert 1882 A, 650.
 Kaup, J. J. 1873 A, 73-94.
 Kesteven, H. L. 1926 B, 231.

Klem, E. F. 1884 A, 144, 206, 245 (Scorpæna).
 1885 A, 109, 166, 201.
 1886 A, 240, 277, fig. 17 (Scorpæna).
 Leunis and Ludwig 1883 A, 672.
 Mackintosh, N. A. 1923 A, 501.
 Meckel, J. F. 1825 A (Scorpæna).
 Meek, A. 1916 A, 345.
 Norman, E. W. 1926 A, 412 (Sebastes).
 Regan, C. T. 1913 A, 170, 172, 174.
 Ridewood, W. G. 1904 A, 58.
 Sauvage, H. E. 1873 A, 726.
 Shepherd, C. E. 1913 A, 386.
 Starks, E. C. 1916 A, 733, fig. 1 (Scorpæna).
 Whitehouse, R. H. 1910 B, 616.
 Woodward, A. S. 1901 A, 577.
 Zittel and Koken 1911 A, 140.
 Zittel and Schlosser 1923 A, 143.

Sebastavus vertebralis Jordan and Gilbert.

Jordan and Gilbert 1919 A, 50, pl. xxxi, fig. 1.
 Duncker, G. 1923 A.
 Jordan, D. S. 1926 B 223 ("Sebastavus").
 1927 A, 191.
 1927 B, 97.

Through an error, this name was applied to Steindachner's *Gobius elongatus*, an Austrian fossil fish.

SEBASTODES Gill. Type *Sebastes paucispinus* Ayres.

Hay, O. P. 1902 A, 406.
 Allis, E. P. 1909 A, 214.
 Arldt, T. 1923 A, 694.
 Ayres, W. O. 1863 A, 391, 393, 398.
 Cockerell, T. D. A. 1913 B, 170.
 Cockerell and Moore 1910 B, 93.
 Cramer, F. 1895 A, 573, pls. lvn-lxx.
 Dean, Gudger, Henn 1923 A, 593, 658.
 Gill, T. 1865 C, 145.
 Huntsman, A. G. 1919 A, 592.
 Jordan, D. S. 1905 A, n, 428, 591.
 1907 B, 640.
 1919 C, 336.
 1921 A, 286.

Jordan and C. Gilbert 1882 A, 652.
 Jordan and J. Z. Gilbert 1920 A, 31.
 Meek, A. 1916 A, 345.

Sebastes rosa Eigenmann.

Hay, O. P. 1902 A, 406.
 Cramer, F. 1895 A, 589 (This genus?).
 Hay, O. P. 1927 D, 199.
 Jordan, D. S. 1907 A, 134.
 1907 B, 649.
 Jordan and J. Z. Gilbert 1919 A, 63.
 Woodward, A. S. 1901 A, 579.
 Tertiary (Pliocene?); California.

SEBASTINUS Jordan. Type *Rixator inezia* Jordan.

Jordan, D. S. 1920 C, 571.

1921 A, 287.

1925 B, 38.

Sebastinus inezia Jordan.

Jordan, D. S., in Jordan and Gilbert 1920 A, 34, pl. xxii, fig. 2 (*Rixator*).

Jordan, D. S., in Jordan and Gilbert 1921 A, 287, pl. lv.

1922 D, 674, fig. 8.

1925 B, 37, pl. xix.

Miocene (Monterey); California.

SEBASTOËSSUS Jordan. Type *S. apostates* Jordan.

Jordan, D. S. 1920 C, 571.

1921 A, 285.

1925 B, 36.

Sebastoëssus apostates Jordan.

Jordan, D. S. 1920 C, 571.

1921 A, 285, pl. xiv, fig. a, pl. lvi.

1925 B, 36.

Miocene (Monterey); California.

Sebastoëssus haroldi Jordan.

Jordan, D. S. 1925 B, 37, pl. xix.

Miocene (Monterey); California.

Sebastoëssus sp. indet.

Jordan, D. S. 1921 A, 288. Miocene (Monterey); California

RIXATOR Jordan and Gilbert. Type *Rixator porteousi* Jord. and Gilb.

Jordan and Gilbert 1920 A, 31.

Jordan, D. S. 1921 A, 285, 287.

Rixator porteousi Jordan and Gilbert.

Jordan and Gilbert 1920 A, 33, pls. xxi, xxii, xxiii.

Jordan, D. S. 1920 A, 22, fig. 5.

1921 A, 284, 286, pl. li.

1925 B, 38

Jordan and Gilbert 1919 A, pl. xxii (*Ectasus proriger*).

Miocene (Monterey); California.

RHOMARCHUS Jordan and Gilbert. Type *R. ensiger* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 51

Rhomarchus ensiger Jordan and Gilbert.

Jordan and Gilbert 1919 A, 51, pl. xxvi, fig. 5.

Jordan, D. S. 1921 A, 288, pl. lv.

Miocene (Monterey), California

HEXAGRAMMOIDÆ, new form.

Jordan, D. S. 1923 A, 210 (*Hexagrammiformes*).

ANOPILOPOMIDÆ Gill.

Gill, T. 1885 C, 253.

Boulenger, G. A. 1904 D, 697 (*Comephoridæ*, in part).

Dean, Gudger, Henn 1923 A, 658 (*Anoploma*).

Jordan, D. S. 1905 A, ii, 438.

1907 B, 649.

Jordan, D. S. 1921 A, 284

1923 A, 210

Jordan and Evermann 1898 A, 186 (*Anoplo-*
matidæ).

Regan, C. T. 1913 A, 171, 173, 177 (*Anoplo-*
matidæ).

EOSCORPIUS Jordan and Gilbert. Type *E. primævus* Jord. and Gilbert.

Jordan and Gilbert 1919 A, 53.

Eoscorpius primævus Jordan and Gilbert.

Jordan and Gilbert 1919 A, 53, pl. xxx.

Jordan, D. S. 1921 A, 284.

Miocene (Monterey); California

HEXAGRAMMIDÆ Gill.

Gill, T. 1889 A, 583, 587.

Ardt, T. 1923 A, 694 ("hexagrammiden").

Boulenger, G. A. 1904 A, 184.

1904 D, 694, 696.

Dean, Gudger, Henn 1923 A, 658.

Goodrich, E. S. 1909 A, 453.

Guthrie, J. E. 1915 A, 27

Jordan, D. S. 1905 A, ii, 439.

1923 A, 211.

Jordan and Evermann 1898 A, 1863.

Jordan and Gilbert 1882 A, 640 (*Chirinae*)

Meek, A. 1916 A, 347.

Regan, C. T. 1913 A, 171, 173, 177

ZEMIAMGRAMMUS Jordan. Type *Z. isistius* Jordan.

Jordan, D. S. 1921 A, 289.

Zemiagrammus isistius Jordan.Jordan, D. S. 1921 A, 289, pl. x, fig. a (*Zemiagrammus*), pl. l (*Zemmiagrammus*).1925 B, 35 (Syn. ? of *Aræosteus rothi*).

Miocene (Monterey); California.

ACHRESTOGRAMMUS Jordan. Type *Hexagrammos achrestus* Jordan and Gilbert.

Jordan, D. S. 1921 A, 289.

Achrestogrammus achrestus (Jordan and Gilbert).Jordan and Gilbert 1919 A, 52, pl. xxiv, fig. 2 (*Hexagrammos*).

Jordan, D. S. 1921 A, 289.

1922 D, 274, fig. 8 (*Hexagrammos*).Jordan and Gilbert 1920 A, 36, pl. xix (*Hexagrammos*).

Miocene (Monterey); California.

OPHIODONTIDÆ Jordan and Gilbert.

Jordan and Gilbert J Z 1920 A, 36.

Jordan, D S 1921 A, 290.

1923 A, 211.

Jordan and Evermann 1898 A, 1864 (*Ophiodontinæ*).Jordan and C. H. Gilbert 1882 A, 640 (*Ophiodontinæ*).OPHIODON Girard. Type *O. elongatus* Girard.

Girard C. 1854, Proc. Acad. Nat. Sci. Phila., 133.

Boulenger, G. A. 1904 D, 692, 696, fig. 422.

Gill T. 1885 C, 253.

Goodrich, E. S. 1909 A, 453.

Gunther, A. C. 1860 A, 93.

Jordan, D. S. 1905 A, u. 4.

1907 B, 651.

1921 A, 290.

Jordan and Evermann 1898 A, 1875.

Jordan and Gilbert 1882 A, 646.

Ophiodon ozymandias Jordan.

Jordan, D. S. 1921 A, 290.

Jordan and Gilbert 1920 A, 36 (*Ozymandias gilberti*, not of 1919).

Miocene (Monterey); California.

COTTOIDÆ, new form.

Hay, O. P. 1902 A, 406 (*Cottoidea*).Gill, T. 1872 C, 6 (*Cottoidea*).1873 F, 8 (*Cottoidea*, *Cyclopteroidea*).Gill T. 1890 A, 363 (*Cottoidea*).Jordan, D. S. 1923 A, 211 (*Cottiformes*).Regan, C. T. 1913 A, 171, 179 (*Cottiformes*).

COTTIDÆ Swainson.

Swainson, W. 1838 A, u, 181, 270.

Hay, O. P. 1902 A, 406.

Abel, O. 1906 C, 83, 84.

Agassiz, L. 1844 D, 142 ("cottoidea").

Allis, E. P. 1909 A, 213.

Aridt, T. 1907 D, 648.

1912 A, 760.

1923 A, 695 ("cottiden").

Berg, L. S. 1906 A, 906.

1907 A, 37.

Boulenger, G. A. 1904 D, 697.

Bridge, T. W. 1896 A, 571.

Cockerell, T. D. A. 1913 B, 171.

Cuvier, G. 1815 A, 110 ("cottes").

Dean, Gudger, Henn. 1923 A, 374, 658.

Fitzinger, L. J. 1873 A, 40 (*Cotti*).

Gill, T. 1885 B, 34.

1885 C, 249.

1905 D, 348.

1908 A, 101 (*Cottinæ*).

Girard, C. F. 1851 A.

1852 A, 3 ("cottoidea").

Goetsch, W. 1920 A, 481.

Goodrich, E. S. 1909 A, 103, 453, fig. 64.

Gunther, A. C. 1881 A, 690.

Heilprin, A. 1887 A, 68.

Hubbs, C. L. 1926 A, 64 ("cottoidea").

Jordan, D. S. 1905 A, u, 441, 565.

1907 B, 652.

1923 A, 213.

Jordan and Evermann 1898 A, 1879.

Jordan and C. Gilbert 1882 A, 682.

Jordan and J. Z. Gilbert 1919 A, 54.

Klein, E. F. 1885 A, 166 (*Cottina*).1886 A, 240, 274, 277 (*Cottina*).

Leunis and Ludwig 1883 A, 687.

Meek, A. 1916 A, 349, 350, 374.

Priem, F. 1914 B, 245, fig. 1 ("cottidarum").

Putnam, F. W. 1874 A, 337.

Regan, C. T. 1911 H, 731.

1913 A, 171, 173, 180.

Richardson, J. 1836 A, 36 (*Cottoidæ*).

Schlosser, M. 1917 A, 140, 143 ("cottiden").

Starks, E. C. 1911 A, 747.

Woodward, A. S. 1901 A, 580.

Zittel and Koken 1911 A, 140.

Zittel and Schlosser 1923 A, 144.

Cottus Linn. Type *C. gobio* Linn.

- Linnaeus*, C. 1758 A, 264.
 Hay, O. P. 1902 A, 406
 Agassiz, A. 1877 A, 122
 Allis, E. P. 1905 A, 465, figs. 31-35.
 1907 A, 570.
 1909 A, 213, pl. iv.
 1922 A, 153
 Arldt, T. 1923 A, 695.
 Baudelot, E. 1873 A, 94
 Beer, G. R. 1924 C, 319, figs. 30, 31.
 Belling, D. E. 1912 A, 55.
 Berg, L. S. 1906 A, 909.
 1907 A, 37
 Born, G. 1827 A, 188
 Bronn, H. G. 1848 A, 341.
 1849 A, 680
 Carlsson, A. 1894 A, 217, 228.
 Cuvier, G. 1805 A
 Dall and Harris 1892 A, 282.
 Dean, Gudger, Henn 1923 A, 676.
 Derjugin, K. 1909 A.
 1910 A, 597
 Dietz, P. A. 1914 A, 135, figs. 21, 29.
 1921 A, 443.
 Frýd, C. 1901 A, 21.
 Fulton, T. W. 1906 A, 55, pl. iii.
 Gil, T. 1861 D, 40
 1908 A, 102, fig. 26
 Guard, C. F. 1851 A.
 1851 B, 183.
 1852 A, 3, 15
 Goetsch, W. 1920 A, 13, 15, 492, pls. i, ii
 Jordan, D. S. 1905 A, ii, 444, 565.
 1907 B, 655.
 Jordan and Evermann 1917 A, 12
 Jordan and Gilbert 1882 A, 700
 Klem, E. F. 1879 A, 86, 117
 1884 A, 208
 1885 A, 111, 201.
 1886 A, 240, 274, 277.
 Kner, R. 1861 A, 762.
 Kostlin, O. 1844 A.
 Leriche, M. 1905 B, 677
 Meek, A. 1916 A, 352.
 Noorden, C. 1883 A, 235.
 Owen, R. 1868 A, 874
 Ryder, J. 1887 A, 354
 Shann, E. W. 1919 A, 532, 560.
 Stanisius, H. 1842 C, 98
 1854 A, 66

- Stephan, P. 1900 A, 301.
 Thilo, O. 1900 B, 20.
 Totten, A. K. 1914 A, 252.
 Woodward, A. S. 1901 A, 585.

Cottus beldingii Eigenmann and Eigenmann.

- Eigenmann and Eigenmann* 1891, Amer. Naturalist, xxv, 1132.
 Hay, O. P. 1927 D, 152
 Jordan, D. S. 1924 A, 1, pl. i (*C. beldingii*)
 Jordan and Evermann 1898 A, 1958
 Recent Lakes Tahoe and Donner California Pleistocene (Lahontan), Nevada

Cottus cryptotremus Cope.

- Hay, O. P. 1902 A, 406
 1927 D, 245, 265, 268
 Leriche, M. 1905 B, 678
 Woodward, A. S. 1901 A, 585.
 Pleistocene (Idaho); Idaho.

Cottus divaricatus Cope.

- Hay, O. P. 1902 A, 406
 Dall and Harris 1892 A, 282
 Hay, O. P. 1927 D, 245
 Hussakof, L. 1908 A, 68, fig. 36a
 Leriche, M. 1905 B, 678
 Woodward, A. S. 1901 A, 585
 Pleistocene (Idaho); Oregon.

Cottus hypoceras Cope.

- Hay, O. P. 1902 A, 406
 Dall and Harris 1892 A, 282
 Hay, O. P. 1927 D, 245
 Hussakof, L. 1908 A, 69, fig. 36e
 Leriche, M. 1905 B, 678
 Woodward, A. S. 1901 A, 585
 Pleistocene (Idaho); Oregon.

Cottus pontifex Cope.

- Hay, O. P. 1902 A, 406
 Dall and Harris 1892 A, 282
 Hay, O. P. 1927 D, 245
 Hussakof, L. 1908 A, 69, fig. 36d
 Leriche, M. 1905 B, 678
 Woodward, A. S. 1901 A, 585
 Pleistocene (Idaho); Oregon

Hayia Jordan and Gilbert. Type *H. danlica* Jordan and Gilbert.

Jordan and Gilbert 1919 A, 55.

The family position of this genus is uncertain.

Hayia danlica Jordan and Gilbert.

- Jordan and Gilbert* 1919 A, 55, pl. xxiii, fig. 2.
 Jordan, D. S. 1921 A, 290
 Miocene (Monterey); California

Artediellus Jordan. Type *Cottus uncinatus* Reinb.

- Hay, O. P. 1902 A, 407.
Artediellus atlanticus Jord. and Evermann.
 Hay, O. P. 1902 A, 407
 Ami, H. M. 1897 A, 22 (*Cottus uncinatus*).

- Ami, H. M. 1901 C, 53 ("Cottus")
 Coleman, A. P. 1901 C, 224 (*Cottus uncinatus*)
 Dawson, J. W. 1857 A, 415 ("Cottus").
 1863 F, 917 ("Cottus").
 1894 C, 203, 265 (*Cottus uncinatus*)
 Hay, O. P. 1923 A, 287.

Johnson, W. A. 1917 A, 25 ("Cottus").
 Lambe, L. M. 1904 C, 39, 44 (A uncinatus).
 Leriche, M. 1905 B, 377 (Cottus uncinatus).
 Meek, A. 1916 A, 354.

Woodward, A. S. 1901 A, 585 (Cottus uncinatus).
 Recent; Labrador to Cape Cod: Pleistocene; Ontario.

URANIDEA DeKay. Type *U. quiescens* DeKay.

DeKay, J. A. 1842, New York Fauna, Fishes, 61.

Girard, C. 1851 A, 9
 Jordan, D. S. 1905 A, II, 444.
 Jordan and Evermann 1898 A, 1963.
 Jordan and Gilbert 1882 A, 693.

Uranidea? sp. indet.

Dall, W. H. 1889, in Diller, J. S. 1889 A, 418
 ("Uranidea" This genus?)
 Turner, H. W. 1889 A, 563 (This genus?).
 Neocene; California.

Suborder TRIGLIFORMES Jordan.

Jordan, D. S. 1923 A, 216.

CYCLOPTEROIDÆ, new form.

Hay, O. P. 1902 A, 407 (Cyclopteroidæ).
 Allis, E. P. 1909 A, 195 (Cyclopteroidæ).

Gill, T. 1873 F, 8 (Cyclopteroidæ).
 1890 A, 361-370 (Cyclopteroidæ).
 Jordan, D. S. 1923 A, 215 (Cyclopteriformes).

CYCLOPTERIDÆ Bonaparte.

Bonaparte, C. L. 1831 A, 96
 Hay, O. P. 1902 A, 407.
 Arlitt, T. 1923 A, 695 ("cyclopteriden")
 Bonaparte, C. L. 1838 B, 132.
 Boulenger, G. A. 1904 D, 698, 737.
 Bridge, T. W. 1896 A, 577.
 Cuvier G. 1815 A, 110 ("cycloptères").
 Dean, Gudger, Henn 1923 A, 658.
 Dietz, P. A. 1914 A, 135
 1921 A, 456.
 Fitzinger, L. J. 1873 A, 41 (Cyclopteri).
 Gill, T. 1885 B, 34.
 1885 C, 250.
 1890 A, 366
 Goodrich, E. S. 1909 A, 454.

Gutel, F. 1896 A, 345 ("cycloptères").
 Gunther, A. C. 1881 A, 690 (Discoboli).
 Jordan D. S. 1905 A II, 453, 565
 1907 B, 664
 1923 A, 215
 Jordan and Gilbert 1882 A 744
 Klein, E. F. 1884 A, 135, 201 (Discoboli)
 Meek, A. 1916 A, 356
 Muller, J. 1846 C 158 (Discoboli)
 Putnam F. W. 1874 A, 337.
 Regan C. T. 1913 A, 172, 173, 182
 Schmidt B. 1913 A, 317 (Cyclopterinae)
 Shepherd, C. E. 1914 A, 271
 Stannius, H. 1854 A, 4 seq (Cyclopteri).
 Starks, E. C. 1911 A, 748 (Cyclopteridae).

(CYCLOPTERUS Linn. Type *C. lumpus* Linn.

Hay, O. P. 1902 A, 407.
 Allis, E. P. 1909 A, 195, 199.
 Baudelot, E. 1873 A, 93
 Boulenger, G. A. 1904 D, 699, 737, fig 425
 Braus, H. 1906 A, 173.
 Cuvier G. 1805 A
 Dean, Gudger, Henn 1923 A, 676
 Derjugin, K. M. 1909 A.
 1910 A, 588.
 Dietz, P. A. 1914 A, 137, figs. 25, 31
 1921 A, 435, figs. 4, 11
 Fiebigler, J. 1905 A, 142.
 Gill, T. 1890 A, 361.
 1907 B, 175.
 Goetsch, W. 1920 A, 38, 500.
 Goette, A. 1879 A, 126.
 Goodrich, E. S. 1906 A, 347.
 Gutel, F. 1896 A, 345.
 Huxley, T. H. 1859 H, 38.
 Jordan and Evermann 1917 A, 12.
 Jordan and Gilbert 1882 A, 746.
 Klaatsch, H. 1890 A, 175.
 Klein, E. F. 1884 A, 135, 201, 216
 1885 A, 199 204 235.
 1886 A, 281.
 Kner, R. 1861 A, 767.
 Kostlin, O. 1844 A.
 Leunis and Ludwig 1883 A, 691.

Meckel, J. F. 1825 A
 Norman, E. W. 1926 A, 402, figs. 42, 50.
 Owen, R. 1848 B, 68.
 1866 A, 180
 Pehrson, T. 1922 A, 13, 20.
 Putnam, F. W. 1874 A, 335
 Sagemehl, M. 1884 A, 4.
 Schmidt, B. 1913 A, 313.
 Stannius, H. 1854 A, 95.
 Stephan, P. 1900 A, 385, 388.
 Thilo, O. 1900 A, 19.
 Uhlmann, E. 1921 A, 275.
 Ussow, S. 1900 A, 185, pl. iv.
 Wagner, R. 1843 A.
 Wallace, A. R. 1876 A, II, 430.

Cyclopterus lumpus Linn.

Hay, O. P. 1902 A, 407.
 Ann, H. M. 1901 C, 54
 Billings, E. 1856 A, 337, 345 (Cyclopteri).
 Bridge, T. W. 1896 A, 577.
 Coleman, A. P. 1901 C, 224
 Dawson, J. W. 1857 A, 408, 415.
 1863 F, 917.
 1872 B, 403.
 1872 C, 57, 99
 1894 C, 203.

- Dietz, P. A. 1921 A, 438, figs. 1-3.
 Fiebigler, J. 1905 A, 141.
 Fulton, T. W. 1906 A, 59, pls. iii, B, v.
 Gill, T. 1885 C, 251, fig. 142.
 1890 A, 368
 1907 B, 175, figs. 32, 33, 36, 43-47
 Goetsch, W. 1920 A, 500.
 Guttel, F. 1896 A, 345, pls. vi-x, text-figs. 1-8.
 Hase, A. 1911 A, 217.
 Haug, E. 1911 A, 1876.
 Hay, O. P. 1923 A, 23, 287
 Jordan, D. S. 1905 A, ii, 453.
 1907 B, 664.

- Jordan and Gilbert 1882 A, 747.
 Lambe, L. M. 1904 C, 39, 44.
 Meek, A. 1916 A, 356, 357, 358.
 Rathke, H. 1822 A, 498, pl. vi.
 Richardson, J. 1836 A, 260.
 Schmidt, B. 1913 A, 313.
 Shepherd, C. E. 1914 A, 271, fig. 3.
 Stromer, E. 1925 B, 363.
 Uhlmann, E. 1921 A, 275, pls. xvi, xvii, text-figs. 1-45.
 Recent; North Atlantic, both coasts: Pleistocene (Leda clay); Ontario.

TRIGLOIDÆ Kaup.

- Kaup, J. J. 1873 A, 79 (as suborder).
 Gill, T. 1889 A, 589 (Cranioini)

- Jordan, D. S. 1905 A, ii 456 (Cranioini)
 1923 A, 216 (Trigliformes).

TRIGLIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 90, 102.
 Allis, E. P. 1909 A, 17, 113.
 Bassoli, G. G. 1906 A, 53, pl. ii (otoliths)
 Baudelot, E. 1873 A, 94 (Trigla)
 Bonaparte, C. L. 1838 B, 132.
 Boulenger, G. A. 1904 D, 700.
 Cockerell, T. D. A. 1913 B, 171.
 Dean, Gudger, Henn 1923 A, 705.
 Eudea-Deslongchamps, E. 1842 D, 45, pl. v ("trigles").
 Fitzinger, L. J. 1873 A, 40 (Trigla).
 Geoffroy-St. Hilaire, E. F. 1824 A, 137 ("trigles").
 Gill, T. 1872 C, 6.
 1885 C 252
 1889 A, 568, 590.
 Goetsch, W. 1920 A, 481 ("trigladen").
 Goode and Bean 1895 A, 462
 Goodrich, E. S. 1909 A, 450, 517.
 Gunther, A. C. 1860 A, 87
 Hamburger, R. 1904 A, 83 (Trigla).
 Hertwig, O. 1881 A, 19
 Jordan, D. S. 1905 A, ii, 456
 1923 A, 27.

- Jordan and Evermann 1898 A, 2147
 Jordan and Gilbert 1882 A, 731.
 Kaup, J. J. 1873 A, 71.
 Kesteven, H. L. 1926 B, 231.
 Klem, E. F. 1884 A, 135, 181, 208.
 1885 A, 111, 134, 166, 201.
 1886 A, 209, 240, 277.
 Kner, R. 1862 A, 57 ("trigloden").
 Meek, A. 1916 A, 362.
 Owen, R. 1866 A, 101, fig. 82 (Trigla).
 Sauvage, H. E. 1873 A, 723
 Schubert, R. J. 1906 A, 641 (Cataphracts).
 Shepherd, C. E. 1912 A, 453.
 Siebenrock, F. 1901 A, 106.
 Stephan, P. 1900 A, 291 ("trigldén").
 Supino, F. 1904 A, 629.
 Terra, P. 1911 A, 218
 Wallace, A. R. 1876 A, ii, 427.
 Weiler, W. 1922 A, 77 (otoliths)
 Williamson, C. 1894 A, 322.
 Woodward, A. S. 1901 A, 585
 Zittel and Koken 1911 A, 140
 Zittel and Schlosser 1923 A, 143.

TRIGLA Linnaeus. Type *T. lyra* Linnaeus.

- Linnaeus, C. 1758 A, 300
 Allis, E. P. 1909 A, 215, pl. v.
 Bassoli, G. G. 1906 A, 53, pl. ii (otoliths).
 Beer, G. R. 1926 A, 339, figs. 107, 114.
 Belling, D. E. 1912 A, 46
 Boulenger, G. A. 1904 D, 701.
 Bridge, T. W. 1896 A, 571.
 Dean, Gudger, Henn 1923 A, 705.
 Dietz, P. A. 1914 A, 135, figs. 22, 27.
 Fryd, C. 1901 A, 22, fig.
 Fulton, T. W. 1906 A, 55, pl. i, B.
 Goetsch, W. 1920 A, 488, pl. xxii.
 Goode and Bean 1895 A, 463.
 Goodrich, E. S. 1909 A, 450, 517.
 Hamburger, R. 1904 A, 88, 120, pl. ii.
 Jordan, D. S. 1905 A, ii, 456.
 Jordan and Evermann 1898 A, 2176.
 Kindred, J. E. 1919 A, 57.
 Kingsley, J. S. 1925A, 113, 237, figs. 119, 250

- Klem, E. F. 1884 A, 183, 199, 251, pl. ii.
 1885 A.
 Kostlin, O. 1844 A.
 Kolzoff, N. K. 1896 A, 516, fig. 4
 Leunr and Ludwig 1883 A, 688
 Pouchet, G. 1878 A, 141 ("trigle").
 Shann, E. W. 1919 A, 532.
 Stannius, H. 1849 A, 536.
 1854 A, 67, 93.
 Thilo, O. 1896 B, 97.
 Weiler, W. 1922 A, 77, pl. i (otoliths).
 Whitehouse, R. H. 1910 C, 139, fig. 3.
 Williamson, C. 1894 A, 322, pls. xiii-xv.
 Woodward, A. S. 1901 A, 586

Trigla? sp. indet.

- Dana, J. D. 1849 A, 722, pl. xvi (This genus?).
 Quaternary, Oregon
 Sauvage, H. E. 1873 A, 723.

Order EMBIOTOCOMORPHI, new name.

Jordan D. S. 1923 A, 217 (Holeconoti).

EMBIOTOCIDÆ Günther.

Günther, A. C. 1862 A, 244.

Agassiz, L. 1853 B, 383 (Embiotocoidæ).

Cockerell, T. D. A. 1913 B, 164, pl. xxxviii, figs. 37, 38.

Eigenmann, C. H. 1894 A, 381-478, with 24 pls.

Frost, G. A. 1928 A 452, pl. xvii (Embiotoca).

Jordan, D. S. 1923 A, 217.

Jordan and Evermann 1898 A, 1493.

Jordan and Gilbert 1882 A, 585.

LIROSCALES Jordan. Type *L. elegans* Jordan.

Jordan, D. S. 1925 B, 32, pl. xvi.

Liroscales elegans Jordan.

Jordan, D. S. 1925 B, 32, pl. xvi.

Miocene (Monterey), California.

ERISCELES Jordan. Type *E. pristinus* Jordan.

Jordan, D. S. 1925 B, 33.

Erisceles pristinus Jordan.

Jordan D. S. 1925 B 33, pl. xvii

Miocene (Monterey), California.

DASCELES Jordan. Type *D. dassurus* Jordan.

Jordan, D. S. 1925 B, 34.

Dasceles dassurus Jordan.

Jordan D. S. 1925 B 34, pl. xviii

Miocene (Monterey), California.

Order GOBIESOCOMORPHI, new name.

Boulenger, G. A. 1904 D, 708 (Xenoptera).

Gill, T. 1872 C, 13 (Gobiesociformes).

1885 C, 267 (Xenopterygu).

Jordan, D. S. 1905 A, ii, 529 (Xenopterygu).

1907 B, 737 (Xenopterygu).

1921 A, 291 (Xenopterygu).

Jordan, D. S. 1923 A, 228 (Xenopterygia).

Jordan and Evermann 1898 A, 2326 (Xenopterygu).

Regan, C. T. 1909 B, 86 (Xenoptery).

1913 B, 111 (Xenopterygu).

GOBIESOCIDÆ Günther.

Günther, A. C. 1861 A, 489.

Allis E. P. 1909 A, 214.

Ardt, T. 1907 D, 656.

Boulenger, G. A. 1904 D, 707.

Cope E. D. 1871 T, 459

Dean, Gudger, Henn 1923 A, 659.

Gill, T. 1872 C, 5.

1885 C, 267.

Goodrich, E. S. 1909 A, 456.

Jordan, D. S. 1923 A, 238.

Jordan and Evermann 1898 A, 2326.

Jordan and Gilbert 1882 A, 747.

BULBICEPS Jordan. Type *B. raninus* Jordan.

Jordan, D. S. 1919 A, 12.

Hubbs, C. L. 1924 A, 178.

Bulbiceps raninus Jordan.

Jordan, D. S. 1919 A, 5, 12, pl. vi.

1921 A, 291.

Miocene? (Soledad), California.

Order DIODONTOMORPHI, new name.

This order is usually called Plectognathi or

Plectognatha by the authors cited.

Hay, O. P. 1902 A, 407.

Abel O. 1919 A, 157.

Ardt, T. 1907 D, 674.

1923 A, 700 ("plectognathen").

Bonaparte, C. L. 1831 A, 97.

1833 B, 1202.

Boulenger, G. A. 1901 D, 500.

1904 A, 162, 189.

1904 D, 721, 751.

Bridge, T. W. 1896 A, 578.

Bronn, H. G. 1849 A, 780, seq.

Carus, V. 1875 A, 582.

Cope, E. D. 1871 T, 456.

Cunningham, J. T. 1912 A, 248, 271.

Dean, Gudger, Henn 1923 A, 695.

Dietz, P. A. 1917 A, 86

Eastman, C. R. 1911 C, 390.

Eichwald, E. 1832 A, 887 ("plectognathen").

Eimer, G. H. T. 1901 A, 61, 107.

Fitzinger, L. J. 1873 A, 46.

Goetsch, W. 1920 A, 19, 39, 450 ("plectognathen").

Goodrich, E. S. 1909 A, 435.

Gill, T. 1885 C, 286.

1905 A, 659, 660.

Greene, J. R. 1861 A, 228.

- Günther, A. C. 1881 A, 688, 694.
 Heckel, J. 1850 B 146 ("plectognathen").
 Hoernes, R. 1886 A, 527.
 Hoeven, J. 1822 A.
 Hollard, H. 1864 B, 248 ("plectognathes").
 Huxley, T. H. 1859 H, 37.
 1863 F, 427
 Jaekel, O. 1911 A, 98.
 1919 A, 109.
 Jordan, D. S. 1905 A, II, 411, 586.
 1907 B, 622, 768.
 1923 A, 239
 Jordan and Gilbert 1882 A, 852
 Klaatsch, H. 1890 A, 175 ("plectognathen").
 Klein, E. F. 1879 A 66, 72
 1881 A, 349.
 1884 A, 150, 190, 236, 251
 1885 A, 129, 158, 218, 252.
 1886 A, 230, 269, 296.
 Kner, R. 1860 B, 822.
 Kostlin, O. 1844 A ("plectognathen").
 Latreille, P. A. 1825 A, 114
 Leunis and Ludwig 1883 A, 763.
 Lonnberg, E. 1901 A.
 1902 A
 Meek, A. 1916 A, 336.
 Parker and Haswell 1897 A, 207.

- Rauther, M. 1913 A, 1104.
 Regan, C. T. 1902 A, 281.
 1903 A, 285.
 1909 B, 81, 86
 1912 B, 843, 852.
 1913 B, 111.
 Rosén, N. 1913 A, 1 ("plectognaths").
 1913 B, 1
 1916 B, 1 ("plectognaths").
 Sagemehl, M. 1884 A, 100 ("plectognathiden").
 Schlosser, M. 1917 A, 142 ("gymnodonten").
 Schmalhausen, J. J. 1916 C, 212
 Siebenrock, F. 1901 A, 107.
 Stannius, H. 1854 A, 6, seq.
 Starks, E. C. 1916 A, 32
 Stephan, P. 1898 A, 358 ("plectognathes").
 1900 A, 314.
 Terra, P. 1911 A, 207.
 Tretjakoff, D. 1925 A, 379 ("plectognathen").
 1926 A, 619 ("plectognathen").
 Wallace, A. R. 1876 A, II, 457.
 Whitehouse, R. H. 1910 B, 620
 Woodward, A. S. 1898 B 122.
 Zittel and Koken 1911 A, 142
 Zittel and Schlosser 1923 A, 140
 Zittel and Woodward 1902 A, 109

Suborder BALISTIFORMES, new name.

Unless otherwise indicated the authors, as cited, use the name *Sclerodermi*.

- Hay, O. P. 1902 A, 407.
 Abel, O. 1912 F, 199.
 Agassiz, L. 1835 B, 331 (*Sclerodermes*).
 1835 H, 231 (*Sclerodermata*).
 1844 D, 142 (*Sclerodermes*).
 1845 C, 325 (*Sclerodermata*).
 Arldt, T. 1923 A, 700 ("sclerodermen").
 Baraldi, G. 1877 A, 44
 Bonaparte, C. L. 1831 A, 97, 120
 Boulenger, G. A. 1904 D, 722.
 Bridge, T. W. 1896 A, 578.
 Bronn, H. G. 1848 B, 1124 (*Sclerodermes*)
 Carus, V. 1875 A 583
 Cockerell, T. D. A. 1913 B, 168.
 Cunningham, J. T. 1912 A, 271.
 Cuvier, G. 1814 A, 76 ("sclerodermes").
 Dean, Gudger, Henn 1923 A, 402, 661, 662.
 Duméril, A. 1856 A, 173 ("sclerodermes").
 Fitzinger, L. J. 1873 A, 46 (*Sclerodermata*).
 Giebel, C. G. 1855 A, 110.
 Gill, T. 1873 F, 6 (*Balistoidæ*)
 1885 C, 287.
 1888 B, 830 ("sclerodermes").
 Goetsch, W. 1920 A, 31 ("sclerodermen")
 Goodrich, E. S. 1909 A, 436.

- Günther, A. 1881 A, 694.
 Hoernes, R. 1886 A, 527.
 Jordan, D. S. 1905 A, II, 412, 591.
 1907 B, 622, 768.
 1923 A, 239
 Klaatsch, H. 1890 A, 175, 187 ("sclerodermen")
 Kostlin, O. 1844 A ("sclerodermen").
 Latreille, P. A. 1825 A, 115 (*Scleroderma*).
 Leunis and Ludwig 1883 A, 763.
 Lonnberg, E. 1901 A.
 1902 A
 Meek, A. 1916 A 336
 Rauther, M. 1913 A, 1104.
 Regan, C. T. 1903 A, 286
 1909 B, 81 (*Balistoides*)
 1912 B, 852.
 Rosén, N. 1913 A, 19.
 Schlosser, M. 1917 A, 142
 Siebenrock, F. 1901 A, 107.
 Stenmann, G. 1927 A, 22 ("sclerodermen")
 Wallace, A. R. 1876 A II, 457
 Whitehouse, R. H. 1910 B, 620, pl. I fig. 33
 Zittel and Koken 1911 A, 142 (*Sclerodermidæ*).
 Zittel and Schlosser 1923 A, 140.
 Zittel and Woodward 1902 A, 110 (*Sclerodermidæ*)

BALISTIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 97, 120.
 Hay, O. P. 1902 A, 407.
 Abel, O. 1922 F, 78.
 Baudelot, E. 1873 A, 112 ("balistes")
 Boulenger, G. A. 1904 A, 189.
 1904 D, 723, 732.
 Cockerell, T. D. A. 1913 B, 168.
 Cope, E. D. 1871 T, 458
 Cuvier, G. 1805 A ("balistes").

- Cuvier, G. 1815 A 120 ("balistes").
 Darest, C. 1872 A, 1527 ("balistes").
 1872 B, 68.
 Dean, Gudger, Henn 1923 A, 670.
 Dietz, P. A. 1914 A, 158, fig. 45 (*Balistes*).
 Duméril, A. 1856 A, 173 ("balistides").
 Fitzinger, L. J. 1873 A, 47 (*Balistæ*).
 Geoffroy St. Hilaire, E. F. 1807 B, 423 ("balistes")

- Gill, T. 1885 B, 35.
 1885 C, 287.
 1888 B, 828.
 Goetsch, W. 1920 A, 34, 449, pl. 1 (Balistes)
 Goodrich, E. S. 1909 A, 437
 Hamburger, R. 1904 A, 80 (Balistes).
 Jordan, D. S. 1905 A, ii, 412, 558.
 1907 B, 623
 1923 A, 239
 Jordan and Gilbert 1882 A, 854
 Klem, E. F. 1881 A, 330, 349 (Balistina).
 1884 A (Balistina).
 1885 A (Balistina)
 1886 A (Balistina)
 Kostlin, O. 1844 A (Balistes).
 Leriche, M. 1906 C, 273.
 Lonnberg, E. 1902 A (Balistini).
 Maver, A. F. 1862 A, 109 (Balistes).
 Meckel, J. F. 1825 A (balisten")
 Meek, A. 1916 A, 336

- Muller, J. 1845 A, 102, 137 (Balistini)
 Owen, R. 1845 B, 82, pl. xl (Balistes)
 1866 A, 197 (Balistes)
 Rauther, M. 1919 A, 214, 4 figs
 Regan, C. T. 1903 A, 288
 Rosén, N. 1913 B, 1, text-fig. G (Balistes).
 1916 B, 3, 12
 Sagemehl, M. 1884 A, 4 (Balistes)
 Shepherd, C. E. 1913 A, 388
 Steinhmann, G. 1927 A, 19, pl. 1; text-figs 7-9
 (Balisti)
 Stephan, P. 1900 A, 379, 402 ("balistidés").
 Thilo, O. 1896 A, 291, pls. vi, vii ("balisten")
 1898 B, 89 ("balistiden")
 Tretjakoff, D. 1925 A, 331, 336 (Balistes).
 1926 A, 619 figs 1, 2 (Balistes)
 Wagner, R. 1843 A (Balistes)
 Williamson, W. C. 1851 A, 657, pl. xxvii, fig. 13
 Woodward, A. S. 1901 A, 565.

GRYPODON Hay. Type *Ancistrodon texanus* Dames.

- Hay, O. P. 1902 A, 408
 Arlitt, T. 1923 A, 700 (Ancistrodon).
 Jordan, D. S. 1920 C, 486
 Leriche, M. 1905 A, 168 (Ancistrodon).
 1906 C, 263, 411 (Ancistrodon).
 1911 A, 164 (Ancistrodon).
 Priem, F. 1907 B, 415 (Ancistrodon).

- Priem, F. 1908 B, 60, 64, 98 fig. 26 (Ancistrodon).
 1912 B, 271 (Ancistrodon).
 Stromer, E. 1905 C, 187 (Ancistrodon).

Grypodon texanus (Dames).

- Hay, O. P. 1902 A, 408
 Cretaceous Texas

Suborder DIODONTIFORMES, new name.

Unless otherwise indicated the authors, as cited use the name *Gymnodontes*.

- Hay, O. P. 1902 A, 408 (Diodontoidea).
 Abel, O. 1912 F, 199
 Agassiz, L. 1833 A, 480 (Gymnodontæ).
 1835 B, 331.
 1835 H, 231 (Gymnodontæ).
 1844 D, 142
 1845 C, 325 ("gymnodonts")
 Arlitt, T. 1907 D, 656 (Gymnodontidæ)
 1923 A, 700 ("gymnodonten").
 Bonaparte, C. L. 1831 A, 97, 120.
 1833 B, 1202.
 1838 B, 131.
 1840 A, 47.
 Born, G. 1827 A, 185 ("gymnodonten").
 Boulenger, G. A. 1901 D, 501
 1904 D, 725, 741.
 Bridge, T. W. 1896 A, 581.
 Cunningham, J. T. 1912 A, 272.
 Dean, Gudge, Henn. 1923 A, 662.
 Duméril, A. 1856 A, 157 ("gymnognathes").
 Eastman, C. R. 1911 C, 390.
 Fitzinger, L. J. 1873 A, 47.
 Giebel, C. G. 1855 A, 110.
 Gill, T. 1885 C, 289
 Goetsch, W. 1920 A, 19 ("gymnodonten").
 Goodrich, E. S. 1909 A, 439
 Gunther, A. 1881 A, 694.
 Hoernes, R. 1886 A, 527.
 Jaekel, O. 1911 A, 99.
 Jordan, D. S. 1905 A, ii, 418, 573.
 1907 B, 629, 768.

- Jordan, D. S. 1923 A, 240
 Jordan and Evermann 1898 A, 1726.
 Klaatsh, H. 1890 A, 175 ("gymnodonten")
 Klem, E. F. 1879 A, 72.
 1885 A, 255.
 1886 A, 231.
 Kner, R. 1860 B, 824 ("gymnodonten")
 Kostlin, O. 1844 A ("gymnodonten").
 Latreille, P. A. 1825 A, 115 (Gymnodonta).
 Leunis and Ludwig 1883 A, 765.
 Lonnberg, E. 1901 A.
 1902 A.
 Muller, J. 1845 A, 102, 137.
 Owen, R. 1839 H, 347 ("gymnodontes").
 1840 H, 74 ("gymnodontes").
 1845 B, 77 ("gymnodonts").
 Rauther, M. 1913 A, 1104.
 Regan, C. T. 1903 A, 288, 291.
 1912 B, 852 (Tetrodontoidea).
 Rosén, N. 1913 A, 19.
 Semon, R. 1901 B, 133 ("gymnodonten").
 Siebenrock, F. 1901 A, 107.
 Stannius, H. 1854 A, 94 (Gymnodontes).
 Thilo, O. 1896 A, 333 ("gymnodonten").
 Tomes, C. S. 1873 A, 41 ("gymnodonts").
 Tretjakoff, D. 1926 A, 619 (Gymnodontes).
 Wallace, A. R. 1876 A, ii, 457.
 Zittel and Koken 1911 A, 142 (Gymnodontidæ)
 Zittel and Schlosser 1923 A, 141 (Gymnodontidæ).
 Zittel and Woodward 1902 A, 110 (Gymnodontidæ).

DIODONTIDÆ Richardson.

Richardson, J. 1856 A, 314.

Hay, O. P. 1902 A, 408.

Boulenger, G. A. 1904 D, 726.

Cope, E. D. 1871 T, 438.

Cunningham, J. T. 1912 A, 248.

Cuvier, G. 1801 A, 25 ("diodons").

1803 A, 166 ("diodons").

1815 A, 120 ("diodons").

Dean, Gudger, Henn 1923 A, 402, 662.

Eastman, C. R. 1911 C, 390.

Fitzinger, L. J. 1873 A, 48 (Diodontes).

Gill, T. 1885 B, 35.

1885 C, 290.

Goodrich, E. S. 1909 A, 440.

Jordan, D. S. 1905 A, ii, 422.

1907 B, 633.

1923 A, 241.

Jordan and Gilbert 1882 A, 859 (Diodontinæ).

Meek, A. 1916 A, 337.

Owen, R. 1866 A (Diodon).

Regan, C. T. 1903 A, 292.

1912 B, 852.

Rosén, N. 1913 A, 19.

1913 B, 24.

1916 B, 10, 20.

Shufeldt, R. W. 1917 A, 1.

Woodward, A. S. 1901 A, 570 (Gymnodontidæ)

DIDON Linn. Type *D. hystrix* Linn.

Hay, O. P. 1902 A, 408.

Abel, O. 1908 E, 415 (Cherodus).

Agassiz, L. 1835 H, 231.

Allis, E. P. 1909 A, 63.

Ardt, T. 1923 A, 700.

Baudelot, E. 1873 A, 94.

Boulenger, G. A. 1904 D, 726, 738.

Bridge, T. W. 1896 A, 582, pl. xxii.

Dean, Gudger, Henn 1923 A, 677.

Dunéril, A. 1856 A, 159.

Eimer, G. H. T. 1901 A, 41, 61.

Goetsch, W. 1920 A, 25, pl. 1.

Goette, A. 1879 A, 127.

Goodrich, E. S. 1909 A, 440, 442, figs. 452-455.

Hyrtil, C. J. 1862 A, 106.

Jordan, D. S. 1905 A, ii, 423, 566.

Jordan and Evermann 1917 A, 15.

Jordan and Gilbert 1882 A, 862.

Klein, E. F. 1884 A, 132, 135, 240, 242, 249,
pl. iii

1885 A, 220.

1886 A, 272, 296, 299, fig. 18.

Kner, R. 1860 B, 824.

Kostlin, O. 1844 A

Leriche, M. 1905 A, 212.

1906 C, 414

Leunis and Ludwig 1883 A, 766.

Meekel, J. F. 1825 A.

Meek, A. 1916 A, 337, 339.

Owen, R. 1840 H, 74

1848 B, 113.

Owen, R. 1868 A, 877

Pasquale, M. 1905 A, 71.

Regan, C. T. 1903 A, 291, fig. 57.

Ridewood, W. G. 1896 A, 387, 390.

Rosén, N. 1913 B, 24.

Schlosser, M. 1917 A, 144

Shufeldt, R. W. 1917 A, 1.

Stannius, H. 1849 A, 539.

1854 A, 6, seq.

Stephan, P. 1900 A, 387.

Thilo, O. 1896 B, 104.

Tretjakoff, D. 1925 A, 381.

1926 A, 639, fig. 10.

Woodward, A. S. 1901 A, 571.

1922 C, 105, fig. 117.

Diodon vetus Leidy.

Hay, O. P. 1902 A, 408.

Pasquale, M. 1905 A, 71, figs. 1-3.

Woodward, A. S. 1901 A, 573.

Phosphate beds, South Carolina Miocene;
North Carolina Pleistocene*; Florida (Cat
No. 4110. Wagner Free Inst., from Peace
Creek, Florida)

Diodon sp. indet.

Hay, O. P. 1923 A 381 Pleistocene (Early);
Florida

Tuomey, M. 1848 A, 159, 160. Eocene (Santee
beds); South Carolina.

ZAPRORIDÆ Jordan.

Jordan, D. S. 1896, Proc. Calif. Acad. Sci., vi,
202.

1923 A 230

Jordan and Evermann 1898 A, 2848.

Jordan and Gilbert 1920 A, 25

A family of uncertain position.

ARÆOSTEUS Jordan and Gilbert. Type *Aræosteus rothi* Jordan and Gilbert.

Jordan and Gilbert 1920 A, 25.

Aræosteus rothi Jordan and Gilbert.

Jordan and Gilbert 1920 A, 25, pl. xiv.

Jordan, D. S. 1921 A, 291, pl. xiv, fig. b.

1925 B, 35 (*Zemagrannus isistius* a syn *)
Miocene (Monterey); California

OTOLITHS.

Hay, O. P. 1902 A, 408.

Bassoli, G. G. 1906 A, 36, pls. 1, ii ("otoliths").

Eastman, C. R. 1901 B, 113 ("otoliths").

Frost, G. A. 1925 A, 152, 553.

Frost, G. A. 1926 A, 465.

1927 A, 298.

1928 A, 451

1928 B, 328.

Fryd, C. 1901 A, 7 (Otolithes).
 Ihring, H. 1891 C, 23 (Otolithi).
 Posthumus, O. 1923 A, 231.
 Priem F 1908 B ('otolithes')
 1914 B, 244-278, figs.

Schubert, R. J. 1902 A (Otolithes).
 1905 A, 613 (Otolithes).
 Shepherd, C. E. 1910 B.
 1916 A.
 Woodward, A. S. 1901 A, 629.

Class AMPHIBIA Linnæus.

Linnæus, C. 1858 A, 1, 194
 Hay, O P 1902 A, 409 (Batrachia)
 Abel, O 1910 B, 185 ("amphibien").
 1912 F, 300, 414.
 1919 A, 220
 1920 A, 345.
 1921 A, 143, 247 ("amphibien").
 Adams, C C 1902 A, 116.
 Adams, L. A 1919 A, 83, 139, 144
 Adloff, P 1904 B, 54 ("amphibien").
 1907 A, 531 ("amphibien")
 1910 B, 241 ("amphibien")
 Adolphi, H 1896 A, 115 ("amphibien").
 Agar, W E 1907 A, 625.
 Allis E P 1898 A, 457
 1907 A, 570 ("amphibien").
 1913 A, 324
 1915 A.
 1918 A, 244.
 1919 B, 80
 1923 A, 48
 1923 B, 132
 Altmann, F 1925 A 88 ("amphibien").
 Anderson R J 1912 A, 917.
 1912 D, 250
 Anonymous, 1912 A, 519
 Anthony, R 1912 A ("batraciens").
 Anthony and Vallous 1914 A, 218 ("batraciens")
 Arldt T 1907 C, 678 ("amphibien").
 1907 D, 637.
 1907 E 204 ("amphibien").
 1909 B, 354 ("amphibien")
 1916 A, 94 ("lurche")
 Arthaber, G 1910 A, 552 ("amphibien")
 Ayers, H 1906 A 77
 Baird, S F 1876 A, cc. 308 ("batrachia").
 Baraldi, G *passim* ("amfibi")
 Bardeleben, K 1896 A, 114 ("amphibier").
 1901 A ("amphibien")
 1903 A, 23 ("amphibien").
 1906 A, 140 ("amphibien")
 1907 A, 35 ("amphibien")
 1907 B, 154 ("amphibien").
 Baidenleth, K S 1913 A 69 ("amphibians").
 Barrell, J 1915 B, 391, 409 ("amphibians").
 Baur, G 1887 H, 47 ("amphibien").
 1893 D, 116 ("amphibien").
 1897 D, 42
 1897 E, 170
 1897 F, 372.
 Beede, J W 1922 A, 680.
 Beer, G R 1926 A, 307.
 Bender, O 1907 A, 38 ("amphibien").
 1910 A, 123 ("amphibien").
 1913 A, 285 ("amphibien").
 Bergmann, C 1841 A, 204 ("amphibien").
 Beyer, H 1907 A, 265, 267 ("amphibien").
 1909 A, 32 ("amphibien").
 Bischoff, T L W. 1840 B, 144 ("amphibies").

Blainville, H M D 1835 A, 272
 Boas, J E V 1914 B, 548, 550 ("amphibien")
 1914 C, 239 ("amphibien").
 Bogolyubsky, S. 1914 A, 659
 Boker, H. 1927 A, 21, 50, fig 13 ("uramphib").
 Bolk, L 1913 A, 113 ("amphibien").
 Bonaparte, C. L. 1832 A, 318
 1833 B, 1186 (Amphibia=Reptilia+Batrachia)
 Boulenger, G A 1901 B, 401
 1902 F, 381
 1917 C 458 ("batraciens")
 Brandt, J F 1865 A, 220
 Branson E B 1918 A, 90 ("amphibians")
 Brauns D. 1890 A, 147, 148 ("amphibien")
 Brauns H 1906 A ("amphibien")
 1906 B 549 ("amphibien")
 Bridge, T W 1878 A, 721, 724
 Broth, F 1904 A, 107 ("amphibien")
 Brown, H G 1849 A, 780, seq (Batrachia)
 Brown, R 1890 A, 410 ("amphibians")
 1899 A, 749 ("amphibians").
 1903 I 554
 1904 B, 94
 1908 A, 1047
 1908 E, 114 ("amphibians")
 1909 B 165
 1911 A 920 (Batrachia)
 1912 A, 625 ("amphibien")
 1926 A, 257 ("amphibians").
 Bruch C 1862 A, 77 ("batrachien")
 Burckhardt, R 1903 A, 78 ("amphibien")
 1906 A, 159 ("sauropsiden").
 Cahall W C 1890 A 232 ("amphibians").
 Carter J T 1905 A, 129
 Cartier O 1875 A, 73 ("amphibien")
 Carius, V 1875 A, 454
 Carus and Engelmann 1861 A, 1052-1065, 1562
 1673, 1703
 Case, E C 1905 E, 180 ("amphibians")
 1907 E, 157.
 1911 B, 85.
 1912 A, 200.
 1915 A, 96.
 1924 B, 6
 Chame, J 1918 A, 734 ("batraciens")
 Cleland J 1887 A, 392.
 Cope, E D 1885 BB, 65 (Batrachia)
 1885 DD, 303 (Batrachia)
 1885 EE, 612 ("batrachians").
 1891 N, 7, 28 (Batrachia).
 Coyle, R. F. 1909 A, 582.
 Cunningham, J T 1897 A, 465.
 Cunningham and Boulenger 1912 A, 157-230.
 Cuvier, G 1803 A, 168 ("batrachiens")
 1815 A, 106 ("batrachians").
 1825 A, v, 2, 386-444, pls. xxiv-xxvii.
 Dablow, A. 1926 A, 95 ("sauropsiden").
 Dana, J. D. 1863 B, 315 ("amphibians").

- Dana, J. D. 1863 C, 343 ("amphibians").
 1863 D, 130 ("batrachians")
- Davidoff, M. 1879 A, 506 ("amphibien")
- Davidson, A. 1895 A, 407
- Day, H. 1915 A, 427.
- Delsman, H. C. 1913 A, 659 ("amphibien").
 1924 A, 155 ("amphibians")
- Dendy, A. 1907 A, 292 ("amphibien")
- Deuninger, K. 1914 A, 186-214 ("amphibien")
 1915 A, 183-186 ("amphibien")
- Dependorf, T. 1907 A, 545 ("amphibien")
- Depéret, C. 1907 B ("amphibians")
- Diener, C. 1909 A, 32 ("amphibien")
- Doderlein, L. 1902 A, 399 ("amphibien")
- Dollo, L. 1883 G, 582
 1884 D, 86.
 1885 C, 302 ("batrachiens")
 1889 E, 146 ("batrachiens")
- Dombrowski, B. A. 1925 A, 69 ("amphibien").
- Druner, L. 1902 A, 439 ("amphibien").
 1904 A, 266 ("amphibien")
- Du Toit, P. J. 1913 A, 244 ("amphibien")
- Dunn, E. R. 1923 A, 129
- Eastman, C. R. 1912 C, 657
 1913 B, 677.
 1914 B, 688 ("amphibians")
 1916 A, 655 ("amphibians")
 1917 B, 655 ("amphibians")
- Edgeworth, F. H. 1920 A, 125
 1925 A, 225
- Eggeling, H. 1906 A, 105 ("amphibien").
- Emmer, G. H. T. 1901 A, 256 ("amphibien")
- Erdler, P. 1895 A ("amphibien")
- Elliot, A. I. M. 1907 A, 648
- Emery, C. 1895 A, 218 ("amphibians")
 1901 A, 673 ("amphibien")
- Erdl, M. 1843 A, 507 ("amphibien")
- Fejérváry, G. J. 1921 C, 11 ("amphibien")
 1925 A, 184 ("amphibien")
- Field, H. H. 1895 A, 340 ("amphibien")
- Foote, J. S. 1913 A ("amphibians")
 1916 A, 18 ("amphibians")
- Forster, A. 1905 A, 89-133
- Frassetto, F. 1915 A ("amfibi")
- Freund, L. 1902 A
- Fuchs, H. 1906 A, 49 ("amphibien").
 1907 A, 150 ("amphibien")
 1909 B, 122.
 1909 D, 61 ("amphibien").
 1910 A, 39 ("amphibien")
 1910 C, 480 ("amphibien")
 1911 A, 33 ("amphibien")
 1912 B, 105 ("amphibien").
 1913 A, 62 ("amphibien").
 1914 A, 32 ("amphibien").
 1920 C, 93 ("amphibien").
 1926 A, 119.
 1926 B, 1-34
- Furbringer, M. 1902 A, 192 ("amphibien").
 1904 A ("amphibien")
 1904 B, 503 ("amphibien")
- Gadow, H. 1901 A, 397.
 1901 B, 3.
 1902 B, 345.
 1913 A, 95.
 1914 A, 506, 508.
- Gaskell, W. H. 1898 A, 553.
- Gaskell, W. H. 1905 A, 41 ("amphibians")
 1910 A, 11 ("amphibians")
- Gaupp, E. 1891 B, 110 ("amphibien").
 1895 A, 57, seq ("amphibien")
 1897 A, 543 ("amphibien")
 1898 B ("amphibien")
 1899 A, 1004, 1058, 1061 ("amphibien").
 1900 A ("amphibien")
 1901 B, 943 ("amphibien")
 1902 A, 167 ("amphibien").
 1905 A, 277 ("amphibien")
 1905 C, 130 ("amphibien")
 1905 D, 931 ("amphibien")
 1905 E, 160 ("amphibien")
 1906 A, 32 ("amphibien")
 1906 B, ("amphibien").
 1908 C, ("amphibien")
 1910 B, 355, 370 ("amphibien")
 1910 C, 425 ("amphibien")
 1910 D, 87 ("amphibien")
 1911 A, 418 ("amphibien")
 1911 B, 98, 113 ("amphibien")
 1911 C, 436 ("amphibien")
 1912 A, 561 ("amphibien")
 1912 B, 218 ("amphibien")
 1913 A, ("amphibien")
- Gebhardt, F. A. M. W. 1907 A, 77 ("amphibien")
- Gegenbaur, C. 1862 A, 179 ("amphibien")
 1862 B, pls.
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 1867 A, 57 ("amphibien")
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 1870 A, 335 ("amphibien")
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- Gelderen, C. 1922 A, 234
- Gervais, P. 1859 A, 491 ("amphibians")
- Giebel, C. G. 1855 A, 98 (Batrachia)
- Gill, T. 1873 E, 435 (Batrachia)
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 1910 B, 958
- Goeppert, E. 1896 B.
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- Goodrich, E. S. 1916 A, 261
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- Goodwin, J. 1857 A
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- Gray, J. E. 1825 A, 213
- Greene, J. R. 1861 A, 219, 226 (Batrachia).
- Gregory, W. K. 1904 A, 57, 58, fig 10
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- Gregory and Adams 1915 A, 763.
- Gregory and Camp 1918 A.
- Gregory, Miner and Noble 1923 A, 280.

- Gregory and Noble 1924 A, 436 ("amphibians")
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 Harkness, R. 1852 A, 258 (Batrachæ).
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 Hasse, C. 1873 B, 629 ("amphibien").
 1873 D ("amphibien").
 1892 C, 5 ("amphibien")
 Hasse and Schwarck 1870 A, 34 ("amphibien")
 Hatschek, B. 1889 A, 83 ("amphibien")
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 Hay, O. P. 1897 B, 774 (Batrachia)
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 1912 D 102 ("amphibien").
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 Iwanzoff, N. 1894 A, 578 ("amphibien").
 Jacobshagen, E. 1920 A, 91 ("amphibien").
 Jaekel, O. 1901 B, 53 ("amphibien").
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 1903 F, 33, 46 ("amphibien").
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 Jaekel O. 1912 A, 610 ("amphibien")
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 Jaekel and Philipp 1903 A, 13 ("amphibien").
 Jordan, D. S. 1898 A, 176 (Batrachia).
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 1911 A, 333 ("amphibien").
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 Kupfer C. 1893 A, 525 ("amphibien")
 Laaser, P. 1903 A, 571 ("amphibien")
 Lakjer, T. 1927 A, 191, 298 ("amphibien").
 Larger, R. 1913 A 702 ("amphibien").
 Lavocat, A. 1885 A, 33 ("amphibien")
 1889 A, 43 ("amphibien")
 Lebedinsky, N. G. 1917 A, 316 ("amphibien").
 Leche, W. 1887 A ("amphibien")
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 1910 D, 153.
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- Lydekker, R. 1903 D, 75.
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 Mantell, G. A. 1844 A, 782 ("batrachians").
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 Nauck, E. T. 1923 A, 2 ("amphibien").
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 1926 A, 1.
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 Noordenbos, W. 1905 B, 390 ("amphibien").
 Nopcea, F. 1926 A, 655.
 Osborn, H. F. 1899 J, 415.
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 1917 B, 307.
 1926 C, 339 ("amphibians").
 Oswald, F. 1911 A, 405.
 Owen, R. 1842 F, 83 ("batrachians").
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 Packard, A. S. 1904 A, 221 ("amphibians").
 Paramore, R. H. 1910 A, 1394.
 Parker, W. K. 1877 B, 529.
 1887 B, 53.
 1890 A, 62.
 Parker and Haswell 1897 A, 245, 271.
 Parsons, F. G. 1903 A, 323.
 Pernier, E. 1920 A ("batraciens").
 Peter, K. 1898 A ("amphibien").
 Peters, W. 1867 A, 726 ("batrachier").
 1868 B, 388.
 Petromievics, B. 1921 A, 107 ("amphibians").
 Pfeffer, H. 1854 A, 46 ("batrachier").
 Pompeckj, J. F. 1912 A, 338.
 Pycraft, W. P. 1909 A, 204.
 Rabl, C. 1901 A, 520 ("amphibien").
 1903 A, 155, 184 ("amphibien").
 Raymond, P. E. 1907 A, 835 ("amphibians").
 Reed, H. D. 1920 A, 325.
 Reichert, K. B. 1837 A, 139 ("amphibien").
 1849 A, 477, 494 ("amphibien").
 Retterer, E. 1908 A, 486 ("amphibians").
 Reynolds, S. H. 1897 A, 133-188.
 Rice, E. L. 1920 A.
 Rose, C. 1897 A, 60 ("amphibien").
 Rohon, J. V. 1902 A, 25 ("amphibien").
 Romer, A. S. 1922 B, 523.
 1924 A, 123, figs. 2, 3.
 Ryder, J. 1885 E, 91 ("amphibians").
 Sabatier, A. 1897 A, 806 ("amphibians").
 1902 A, 99 ("amphibien").
 Sagemehl, M. 1883 A ("amphibien").
 Schaumland, H. 1906 A, 487 ("amphibien").
 Schlosser, M. 1898 D, 120 ("amphibien").
 1903 G, 145.
 Schmalhausen, J. J. 1907 A, 177 ("amphibien").
 1908 A, 337 ("amphibien").
 1916 B, 138.
 1917 A, 102.
 1923 B, 544 ("amphibien").
 Schout, G. 1902 A, 6 ("amphibien").
 Schuchert, C. 1915 A, 754, 797.
 Schuchert and Bairrell 1914 A, 25 ("amphibians").
 Schuchert and Levene 1927 A, 289 ("amphibians").
 Scott, W. B. 1917 A, 33, 144, 155.
 Sedgwick, A. 1894 A, 52.
 Seeley, H. G. 1872 B, 22.
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 Senon, R. 1898 A, 100 ("amphibien").
 1901 A, 150 ("amphibien").
 Serres, M. 1852 A, 144 ("batraciens").
 Sewertzoff, A. 1896 A, 207.
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 1926 A, 507.
 1926 D, 76 ("amphibien").
 Seydel, O. 1899 A ("amphibien").
 Shitkov, B. M. 1899 A, 256 ("amphibien").
 Shore, T. W. 1887 A, 364.
 Sirena, S. 1872 A, 125 ("amphibien").
 Sivta, V. 1899 A, 329 ("amphibien").
 1901 A, 326 ("amphibien").
 1905 A, 674 ("amphibien").
 Smith, G. E. 1911 A, 293.
 1912 A, 426.
 Sollas, W. J. 1916 A, 110.
 Somes, F. 1907 A, 432 ("amphibien").
 Spencer, W. B. 1886 A, 173, 220.
 Steiner, H. 1921 A, 513 ("amphibien").
 Stejneger, L. 1904 A, 924.
 1907 A, 1.
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- Steinmann, G. 1907 A, 421.
 1908 A, 207 ("amphibien").
 Stephan, P. 1900 A, 361 ("batrachiens").
 Strecker, C. 1887 A, 303 ("amphibien").
 Stromer, E. 1912 A, 54.
 Sutton, J. B. 1884 A, 570 ("amphibian").
 Taschenberg, O. 1894 A, 3506-3575.
 Terra, P. 1911 A, 137, 222 ("amphibien").
 Thevenin, A. 1906 A, 145 ("amphibiens").
 1909 A, 1223 ("amphibiens").
 1910 A, 60 ("amphibiens").
 Thyng, F. W. 1906 A, 45.
 Tomes, C. S. 1875 A, 93 (Batrachia).
 Torner, G. 1894 A, 96 ("amphibien").
 1894 B, 104 ("amphibien").
 Traquair, R. H. 1900 C, 506.
 Van Gelderen, C. 1925 A, 501 ("amphibien").
 Van Wyhe, J. W. 1922 A, 293 ("amphibien").
 Vanhoffen, E. 1891 A, 134 ("amphibien").
 Veit, O. 1916 A, 375 ("amphibien").
 Versluis, J. 1903 A, 167 ("amphibien").
 1912 B, 552 ("amphibien").
 1912 C, 313.
 Vialleton, L. 1917 A, 191 ("amphibiens").
 Villiers, C. G. S. 1922 A, 44 ("amphibien").
 Vitali, G. 1909 A, 208 ("amphibi").
 Voit, M. 1923 A, 69 ("amphibien").
 Wagner, R. 1843 A, 146 (Batrachia).
 Wallace, A. R. 1876 A, i, 489; ii, 559.
 Wanach, P. 1913 A, 18 ("amphibien").
 Watson, D. M. S. 1913 D, 25 ("amphibians").
 1914 I, 532.
 1916 C, 632.
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 1919 A, 287.
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- Wegner, R. N. 1922 A, 413 ("amphibien").
 Weidenreich, F. 1922 A, 45 ("amphibien").
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 Werner, F. 1904 A, 332 ("batrachier").
 Wiedersheim, R. 1892 A, 46 ("amphibien").
 Wilder, B. 1897 A, 295.
 Williston, S. W. 1909 A, 393.
 1910 B, 71 ("amphibians").
 1912 E, 258.
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 1913 B, 625 ("amphibians").
 1914 A, 3 ("amphibians").
 1914 D, 410, 416 ("amphibians").
 1916 B, 194, 200.
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 1918 A, 75 ("amphibians").
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 Wintiebert, P. 1910 A, 178, 300, 419, 1081 ("amphibiens").
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 Woodward, A. S. 1898 E, 329.
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 1910 B, 464 ("amphibians").
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 Wright, W. 1909 A, 672.
 Ziegler, H. E. 1901 A, 235 ("amphibien").
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 Zieker, F. E. 1905 A, 511 ("amphibien").
 Zittel, K. A. 1895 A, 306.
 1897 A, 128 ("amphibien").
 1901 A, 412 ("amphibians").
 Zittel and Brohl. 1911 A, 143.
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 Zittel, Eastman, etc. 1902 A, 114.
 Zwick, W. 1897 A, 62.

Subclass PHRACTAMPHIBIA Haeckel.

- Haeckel, E. 1866, Gen. Morphol.
 Gadow, H. 1898 A, 11.

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- Hay, O. P. 1902 A, 409.
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 1909 F, 455 ("stegocephalen").
 1910 B (185, 186), ("stegocephalen").
 1912 F, 212, 384, 414, 702.
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 1920 A, 346 ("stegocephalen").
 1921 A, 144, 246, 252 ("stegocephalen").
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 Allis, E. P. 1898 A, 443.
 1905 A, 494.
 1919 B, 82.
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 Amalitsky, V. P. 1924 A, 62 (Stegocephalia).
 1924 B, 67 (Stegocephalia).
 Anthony, R. 1912 A ("stégocephales").
 1913 A, 243, 269 ("stégocephales").
 Arlitt, T. 1907 D, 683.
 1907 E, 204 (Stegocephala).

- Arlitt, T. 1909 B, 353 ("stegocephalen").
 1916 A, 96 ("stegocephalen").
 Arthaber, G. 1910 A, 552 ("stegocephalen").
 Bardach, K. 1901 A, 37 ("stegocephalen").
 1907 A, 36 ("stegocephalen").
 1907 B, 154 ("stegocephalen").
 Bluntschli, H. 1912 B, 380 ("stegocephalen").
 Boas, J. E. V. 1914 B, 553 ("stegocephalen").
 1914 C, 240 ("stegocephalen").
 Bogoljubsky, S. 1914 A, 661 (Stegocephala).
 Boulenger, G. A. 1901 B, 401 (Stegocephala).
 1902 F, 382 (Stegocephala).
 1904 C, 479 (Stegocephala).
 1917 C, 457 ("stégocephales").
 Brauns, D. 1890 A, 161.
 Braus, H. 1906 A, 246 ("stegocephalen").
 Brohl, F. 1904 A, 7, 105 ("stegocephalen").
 1904 D, 578 ("stegocephalen").
 1905 A, 12 ("stegocephalen").

- Broili, F. 1908 D, 235 ("stegocephalen").
 1917 A, 564 ("stegocephalen").
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- Broom, R. 1903 B, 499 ("stegocephalians").
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- Case, E. C. 1911 B, 14, 15.
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- Cope, E. D. 1885 DD, 305
 1891 N, 28.
- Credner, H. 1882 B, 1 ("stegocephalen").
 1893 A, 639 ("stegocephalen").
- Cunningham and Boulenger. 1912 A, 159, 168, 170
- Dablow, A. 1926 A, 96 ("stegocephalen").
- Dames, W. 1899 B, 365
- Davidson, A. 1895 A, 407
- Dépéret, C. 1912 A, 703 ("stégocephales")
- Doderlein, L. 1900 A, 329 ("stegocephalen").
- Dollo, L. 1884 D, 86
- Drevernann, F. 1920 A ("stegocephalen").
- Du Toit, R. J. 1911 A, 420 (Stegocephala)
- Eggeling, H. 1906 A, 107 ("stegocephalen")
- Emmer, G. H. T. 1901 A, 63 ("stegocephalen").
- Emery, C. 1901 A, 672 ("stegocephalen")
- Fejérváry, G. J. 1921 C, 11 ("stegocephalen").
- Frassetto, F. 1915 A ("stegocephali").
- Fuchs, H. 1908 B, 539 ("stegocephalen").
 1909 B, 113 ("stegocephalen").
 1909 C, 87 ("stegocephalen").
 1909 D, 29 ("stegocephalen").
 1910 A, 45 ("stegocephalen").
 1911 B, 398 ("stegocephalen").
 1912 B, 89 ("stegocephalen")
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- Furbinger, M. 1902 A, 215 ("stegocephalen")
 1904 A ("stegocephalen")
- Gemitz and Dechenulle. 1882 B, 13 ("stegocephalen")
- Gadow, H. 1901 B, 78 (Phractamphibia).
 1902 B, 359 (Stegocephala)
- Gaupp, E. 1895 A, 56, seq. ("stegocephalen").
 1905 D, 932 ("stegocephalen").
 1906 A, 56 ("stegocephalen").
 1910 A, 535 ("stegocephalen").
 1912 A, 562 ("stegocephalen").
 1913 A, 88 (Stegocephala).
- Gehardt, F. A. M. W. 1907 A, 82 ("stegocephalen")
- Gill, T. 1898 A, 697 ("stegocephals")
- Goodrich, E. S. 1924 A, 935 (Stegocephala).
- Gregory, W. K. 1913 D, 806 (Stegocephala).
 1913 E, 4 ("stegocephalians").
 1915 D, 322, 334, 365.
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 1922 A, 10 ("stegocephs").
- Gregory and Adams 1915 A, 763 ("stegocephalians")
- Hase, A. 1907 A, 656 ("stegocephalen").
- Heilmann, G. 1926 A, 207 ("stegocephalians")
- Heilmann, A. 1887 A, 310 (Stegocephala).
- Hilzheimer, M. 1913 A, 474 ("stegocephalen").
- Homms, J. H. 1924 A, 36 (Stegocephala).
- Howes, G. B. 1902 A, 525 (Stegocephala)
- Howes and Sumner. 1901 A, 2, 3, 54, 69, 70 (Stegocephala).
- Hübner, A. A. W. 1897 A, 30
- Huene, F. 1909 D, 325 ("stegocephalen").
 1911 B, 398 ("stegocephalen").
 1912 D, 102 ("stegocephalen").
 1913 G, 501 ("stegocephalen").
 1920 F, 533 ("stegocephalen").
 1922 G, 395-460 ("stegocephalen")
- Jackel, O. 1901 B, 53 ("stegocephalen").
 1902 A, 107 ("stegocephalen")
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 1903 A, 133 ("stegocephalen")
 1903 F, 28, fig. 1 (Stegocephala)
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- Kehler, F. A. 1896 A, 353 ("stegocephalen").
- King, J. S. 1900 B, 167 ("stegocephals").
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 1925 A, 36, 121, 279
- Klaatsch, H. 1890 A, 232 ("stegocephalen")
- Koken, E. 1893 B, 240, 269 ("stegocephalen")
- Lakjer, T. 1927 A ("stegocephalen").
- Lucas, F. A. 1902 B, 119
- Lull, R. S. 1917 B, 487 (Stegocephala)
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- Luddeke, R. 1903 D, 75 (Stegocephala)
- Matthew, W. D. 1908 D, 916 (Stegocephala)
 1915 A, 185, 294 (Stegocephala)
- Mawhin, R. L. 1924 A, 317 (Stegocephala)
- Mmei, R. W. 1925 A, 148 (Stegocephala).
- Möller, S. 1897 A, 3 ("stegocephalen")
- Moodie, R. L. 1908 B, 373 (Stegocephala)
 1908 G, 512, fig. 1 (Stegocephala).
 1909 C, 118, 119, 123 (Stegocephala)
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 1909 F, 220 (Stegocephala)
 1911 C, 380 (Stegocephala)
 1912 D, 326 (Stegocephala)
 1913 A, 183
 1915 G, 371 (Stegocephala).
- Nauk, E. T. 1923 A, 2 ("stegocephalen")
- Nopsa, F. 1923 E, 1047, 1052
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- Oshorn, H. F. 1903 H, 457, 506.
 1904 M, 257 (Stegocephala)
- Pehrson, T. 1922 A, 53 ("stegocephals").
- Perrin, E. 1920 A, 281 ("stégocephales").
- Perrin, A. 1889 A, 521 ("stégocephales").
- Petronevics, B. 1921 A, 105 ("stégocephales").
- Pompeck, J. F. 1912 A, 338, 346 ("stegocephalen").

- Puccioni, N 1908 A 56 ("stegocephali")
 Rabl C 1903 A, 166, 180 ("stegocephalen")
 Romer, A S 1922 B, 519 523 (Stegocephalia)
 Schmalhausen, J. J 1916 B, 147 ("stégocéphales")
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 Schwartz, H 1908 A, 315 ("stegocephalen").
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 Sewertzoff, A N. 1908 A, 359, 363 (Stegocephala).
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 1912 A 427 (Stegocephalia).
 Sollas, W J 1916 A, 115
 Steiner H 1921 A, 534 ("stegocephalen").
 1922 A 340 ("stegocephalen").
 Steinmann, G 1907 A 421 (Stegocephalia)
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 Stensio, E A 1921 A, 142 ("stegocephalians")
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 Strennig, H 1909 A, 504 ("stegocephalen").
 Stromer, E 1912 A 57 (Stegocephali); 60 (Labyrinthodonti)
 1913 A 61 ("stegocephalen")
 Suchkin, P 1910 A 250 (Stegocephala)
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 Thevenin, A 1909 A, 1223 ("stégocéphales").
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 Thung, F W. 1906 A, 43 (Stegocephala)
 Tins, H. W M 1903 A, 132 (Stegocephala)
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 Villiers, C G. S 1922 A, 172, 218 (Stegocephalia)
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 Watson D M S 1912 B, 586 (Stegocephalia)
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 1913 D, 24 (Stegocephalia).
 1913 F 957 (Stegocephalia).
 1914 A, 310
 1914 C, 396 (Stegocephalia).
 1914 D, 167 (Stegocephalia).
 1914 F, 780 (Stegocephalia).
 1916 E, 83 (Stegocephalia).
 1917 A, 933 ("stegocephs")
 1919 B, 2 (Stegocephalia)
 Wegner R N. 1922 A, 464
 Wilekens, O 1911 A, 708 ("stegocephalen").
 Williston, S W 1904 B, 178
 1908 B, 396.
 1909 A, 394.
 1910 E, 540
 1914 A, 2 (Stegocephalia)
 1916 B, 200 (Stegocephalia)
 1918 A, 75
 1925 A, 31, 91, 96, 99 119, 122, 126, 132 (Stegocephalia)
 Wills, L J 1916 A, 5 (Stegocephalia)
 Wiman, C 1910 A, 34 ("stegocephalen").
 1915 A, 1 ("stegocephalen")
 1916 D 413 ("stegocephalians")
 Wintrebert, P 1910 A, 1081 ("stégocéphales")
 1910 B 79 ("stégocéphales")
 Woodward, A S 1897 C, 371 (Labyrinthodontia)
 1909 A, 324 (Stegocephala)
 1910 B, 464 (Stegocephala).
 1911 C, 46 (Stegocephalia)
 1922 B, 27, 29 (Stegocephalia).
 Zittel and Bronn 1911 A, 147
 1923 A, 161
 Zittel Eastman, etc 1902 A, 117 (Stegocephalia).

Suborder BRANCHIOSAURIA.

- Hav O P 1902 A, 410 (Microsauria, part)
 Abel O 1912 F, 219 ("branchiosauren").
 1919 A, 294 (Phyllospondyli)
 Airdt, T 1907 D, 662 (Lepospondyli)
 1916 A 97 ("branchiosauren")
 Boulenger, G A 1901 B, 401.
 1902 F, 333
 Bronn F 1904 A 26 (Lepospondyli).
 1908 E, 298 (Lepospondyli).
 Bullman, O M. B. 1928 A, 250 ("branchiosaurs")
 Dav H 1915 A 430.
 Frassetto, F 1915 A, 29.
 Fuchs, H 1909 B, 149 (Branchiosauri).
 1909 D, 55 ("branchiosauren")
 Gadow, H 1901 B, 80 (Branchiosauni, Lepospondyli)
 Gregory W. K 1915 D 365
 Huene F 1913 G, 501 ("branchiosauren")
 1926 A, 262
 Jaekel O 1909 A, 194 (Lepospondyli), 204 (Branchiosauni)
 1911 A, 109 (Branchiosauni)
 1922 A, 3 (Branchiosauni)
 Lohest, M 1888 B, xxx ("amphibien").
 Lydekker, R 1909 C, 469.
 1910 F, 672.
 Moodie, R. L 1908 B, 363, 373.
 Moodie R L 1908 E, 566
 1908 G, 516
 1909 C, 118, 121.
 1909 E, 38, 39
 1909 F, 220
 1909 G 362
 1910 F, 234.
 1911 H, 243
 1912 D, 324, 326
 1912 E, 35
 1915 F, 189, 190
 1916 A, 4, 50 (Branchiosauria), 75 (Lepospondyli)
 Pompeck, J F 1912 A, 341, 342 ("branchiosauren")
 Schwartz, H 1908 A, 315 (Lepospondylia).
 Sollas, W J 1920 A, 526
 Steinmann, G. 1907 A, 422 (Branchiosauni).
 Stromer, E 1912 A, 59 (Phyllospondyli).
 Thevenin, A. 1910 A, 4, 5 ("phyllospondyles").
 Watson D M S 1914 D, 171 ("branchiosaurs").
 1917 C, 169, 181 (Phyllospondylia, Lepospondylia)
 1919 C, 239
 1921 C, 73 (Phyllospondyli).
 Williston, S. W 1912 B, 657 (Lepospondyli).
 1912 E, 258 ("branchiosaurs").

- Williston, S. W. 1916 B, 209 (Lepospondyli).
1925 A, 119.
Wintrebert, P. 1910 A, 1081 ("branchiosauriens")
1910 B, 226 (Branchiosaurus).

- Zittel and Broili 1911 A, 160 (Phyllospondyli)
1923 A, 198 (Phyllospondyli)
Zittel, Eastman, etc 1902 A, 124 (Phyllospondyli)

PROTRITONIDÆ Lydekker.

- Nicholson and Lydekker 1889 A, 1022, 1039
Hay O P. 1902 A, 410
Unless otherwise indicated the authors, as quoted, use for this family the name Branchiosauridæ, and for the genus *Protriton* the name *Branchiosaurus*.
Abel, O. 1912 F, 213 (Branchiosaurus).
1919 A, 295
Ardt, T. 1907 D, 277.
1908 A, 1.
1912 A 650, 658
Bulman and Whittaid 1926 A, 536.
Credner, H. 1882 B (Branchiosaurus).
1882 C, 43 (Branchiosaurus)
1883 A, 683, 698, 703 (Branchiosauridæ).
Deichmüller J V 1884 A 5, pl 1 (Protriton).
Emmer G H T. 1901 A, 196 (Branchiosaurus)
Fejérváry, G J. 1920 A, 363.
Fritsch, A. 1879 A 720 (Protriton)
1883 A 69 (Branchiosauridæ)
Fuchs, H. 1909 C 87.
1909 D, 29 (Branchiosaurus)
1910 A, 45 (Branchiosaurus)
Gaudry, A. 1875 A, 300 (Protriton)
1875 E, 442 (Salamandridæ)
1876 A, 721 (Protriton)
1878 A, 957 (Protriton)
Gaupp, E. 1911 E, 406 (Branchiosaurus)
Gemitz and Deichmüller 1892 B, 13, 30, 41 (Branchiosaurus)
Gregory, W K. 1911 A, 509 ("branchiosauris")
1915 D, 375, fig 15 (Branchiosaurus)
1917 B 313, 316, 318
Huene, F. 1913 G, 502 figs 1 11 19, 20 (Branchiosaurus), 505 (Branchiosauridæ)
1920 C, 211
Jaekel, O. 1903 A, 119 (Branchiosaurus)
1903 F, 32 (Branchiosaurus)
1909 A, 204

- Jaekel, O. 1909 B 588, figs 1 2 (Branchiosaurus)
1922 A, 2 ("branchiosauriden")
1927 A, 259 ("branchiosauriden")
Kesteven, H L. 1919 A, 223, fig 1 (Branchiosaurus)
Kingsley J S. 1902 C, 333 (Branchiosaurus)
Lakjer, T. 1927 A, 199, fig 76 (Branchiosaurus)
Moodie R L. 1909 E, 43 (Branchiosaurus)
1910 A, 369
1910 C, 234
1911 C, 382
1912 D, 326.
1915 F, 186
Noble, G K. 1925 C, 7 ("branchiosaurs").
Perrin, A. 1899 A, 521 figs 1, 3 (Branchiosaurus).
Perrier, E. 1920 A, 277 (Branchiosaurus).
Schonfield G. 1911 A 19 pls 1-III (Branchiosaurus)
Schwarz, H. 1908 A, 324 (Branchiosaurus).
Sitz, A L L. 1907 A, 249 (Branchiosaurus)
Stadtmüller, F. 1926 A 159, fig 5 (Branchiosaurus)
Stappenbeck, R. 1905 A 401 (Branchiosaurus)
Steiner H. 1921 A 535 (Branchiosauridæ)
Stenmann, G. 1908 A 207 ("branchiosaurier")
Thevenin A. 1905 A 1268 (Branchiosaurus).
1906 A, 146 (Branchiosaurus)
1909 A, 1223 (Protriton).
1910 A, 5, 27 (Branchiosaurus)
Thyng F W. 1906 A, 44, fig C (Branchiosaurus)
Watson, D M S. 1917 C, 170
1921 C, 72 (Branchiosaurus)
Wintrebert, P. 1910 A, 1082
1910 B 78 172 ("protritoides")
Woodward, A S. 1898 E 329 (Branchiosaurus)
Zittel and Broili 1911 A, 160
Zittel Eastman etc 1902 A, 124

MICRERPETON Moodie. Type *M. caudatum* Moodie.

- Moodie R L. 1909 E, 39.
Ardt T. 1916 A, 98.
Bulman and Whittaid 1926 A, 578
Moodie R L. 1908 G 535
1912 D, 327, 330.
1915 E, 463.
1915 G, 369.
1915 J, 322.
1916 A, 51.
Pompeckj, J. F. 1912 A, 342.
Watson D M S. 1917 C, 170.
1921 C, 72.
Zittel and Broili 1911 A, 162.
1923 A, 199
Microperpeton caudatum Moodie.
Moodie R L. 1909 E 38 39, figs. 1-6.

- Lydekker, R. 1910 F, 672
Mmer, R W. 1925 A 171
Moodie, R L. 1908 B 362 figs 1 3
1908 E, 564, fig. 4
1908 G, 516, figs 4, 5
1909 C, 118
1910 A, 368
1910 C, 233
1911 H, 242, pl II, fig 1
1912 A, 277
1912 D 326, 330, 331
1914 A, 22
1915 J, 322
1916 A, 52, pl. II; pl. XXV, fig. 4; text-fig 13
Pennsylvanian (Mazon Creek); Illinois

EUMICRERPETON Moodie. Type *E. parvum* Moodie.

Moodie, R. L. 1910 A, 369.

Arlt, T. 1916 A, 98.

Bulman and Whittard 1926 A, 578.

Gregory, W. K. 1917 B, 311.

Moodie, R. L. 1912 D, 330

1915 E, 463.

1916 A, 57

Osborn, H. F. 1917 B, 179, fig

Schuchert and Levene 1927 A, 290, fig.

Watson, D. M. S. 1921 C, 72

Eumicrerpeton parvum Moodie.

Moodie, R. L. 1910 A, 369, figs 1-4

1911 B, 429, fig 1.

1912 A, 277

1912 D, 326, 331, pl. iii, figs 3, 4; pl. iv;

pl. v, fig 1. pl. vi, figs 1, 2

1914 A, 19

1915 I, 146

1915 J, 323, figs. 5, 6

1916 A, 57, pl. iii, figs. 1, 2; pl. v, fig. 1;

text-figs. 14, 15

Pennsylvanian (Mazon Creek); Illinois.

MAZONERPETON Moodie. Type *M. longicaudatum* Moodie.

Moodie, R. L. 1912 D, 336

Bulman and Whittard 1926 A, 578

Moodie, R. L. 1916 A, 61, pl. v, fig 2.

Watson, D. M. S. 1921 C, 72

Mazonerpeton costatum Moodie.

Moodie, R. L. 1912 D, 326, 341, pl. ii, fig 3,

pl. viii, fig 4; pl. ix, fig 2, pl. x

1912 A, 278

1914 A, 22

Moodie, R. L. 1916 A, 63, pl. iv, fig 3, text-fig 15

Pennsylvanian (Mazon Creek); Illinois.

Mazonerpeton longicaudatum Moodie.

Moodie, R. L. 1912 D, 326, 337, pl. iii, figs. 1, 2, pl. vii, fig 3, pl. x

1912 A, 278.

1914 A, 22

1916 A, 61, pl. iii, figs 5, 6; text-fig. 14a.

Pennsylvanian (Mazon Creek); Illinois.

SPARODUS Fritsch. Type *S. validus* Fritsch.

Hay, O. P. 1902 A, 411.

Moodie, R. L. 1909 E, 40

1912 D, 326

The systematic relationships of this genus are in doubt

Sparodus sp. indet.

Hay, O. P. 1902 A, 411

Lambe, L. M. 1904 C, 19, 35, 45

Moodie, R. L. 1914 A, 26

1916 A, 66

Pennsylvanian (Joggins), Nova Scotia

Suborder DIPLOCAULIA Moodie.

Moodie, R. L. 1909 F, 220.

Case, E. C. 1911 B, 90

Gregory, W. K. 1917 B, 316 (Euamphibia)

Moodie, R. L. 1909 D, 243 (Euamphibia, in part Diplocaulia)

1909 F, 220 (Euamphibia, in part).

1911 H, 243 (Euamphibia, in part)

1912 A, 278 (Euamphibia, in part).

Moodie, R. L. 1912 D, 326 (Euamphibia, in part)

1912 E, 31

1915 F, 190

1915 H, 638

1916 A, 34, 46

Williston, S. W. 1916 B, 209 (Leptospondyli)

DIPLOCAULIDÆ Cope.

Hay, O. P. 1902 A, 416.

Arlt, T. 1909 B, 354 ('diplocauliden').

1912 A, 656

1916 A, 101, 143 ('diplocauliden')

Broili, F. 1902 A, 539

1904 A, 26

1905 A, 14

Case, E. C. 1911 B, 14, 15, 79, 85

1915 A, 96.

Huene, F. 1912 E, 472 ('diplocauliden').

Huene, F. 1913 G, 505 (Nectride).

Gregory, W. K. 1917 B, 313

Moodie, R. L. 1913 A, 190

Watson, D. M. S. 1917 C, 170

Williston, S. W. 1909 D, 131

1910 D, 534.

1912 B, 657

1916 B, 209

Zittel and Broili 1911 A, 165

1923 A, 202

DIPLOCAULUS Cope. Type *D. salamandroides* Cope.

Hay, O. P. 1902 A, 416.

Abel, O. 1919 A, 231, 303, fig 183

1920 A, 353

1921 A, 298.

Anonymous 1912 A, 519.

Arlt, T. 1916 A, 101.

Broili, F. 1902 A, 536, fig 3

1904 A, 7, 26, 28, 48

1905 A, 13

1913 A, 98

1913 C, 529.

1914 B, 166 (Batrachiderpeton a syn?).

- Broom, R 1903 B, 499.
1910 A, 214.
- Case, E C 1900 A, 722.
1908 C, 579.
1908 D, 567, figs 12, 13.
1911 B, 14, 15, 79, 85
1915 A, 111, 115, 125
- Cummins, W F. 1908 A, 745
- Douthitt, H 1917 B, 3-40, figs 2-4, 6, 7.
Geol. Mag 1912 A, 519
- Gregory, W K 1917 B, 312, 316
- Huene, F 1912 E, 472
1913 G, 503, fig. 3
1919 A, 181.
1922 G, 447, 452.
- Jaekel, O 1903 A, 117, 125, 126, figs 5, 6
1914 A, 209.
- Kingley, J. S 1925 A, 122, fig. 128.
- Lakjer, T 1927 A, 192, 198, 205.
- Matthew, W D 1909 G 93, figs 3, 4.
- Mehl, M G 1912 C, 409.
1921 A, 48.
- Moodie, R L 1908 G, 520, 521.
1909 F, 220.
1911 C, 377
1912 E, 31
1913 A, 190.
1915 G, 372
1915 J, 318
- Neumayer, L 1904 A, 121.
- Nopce, F 1923 E, 1052, fig 9.
- Osborn, H F 1902 B, 93, fig 1.
1916 E, 613, figs. 24, 25
1917 B, 179, 180, 182, figs
- Romer, A S 1922 B, 557, 587, pl xxxvii.
1925 B 461
- Schuchert, C 1910 A, 570
- Sternberg, C H 1909 C, 227.
- Watson, D M S 1913 F, 960.
1916 E, 86
1917 C, 170.
1919 B, 58.
- Williston, S W 1909 D, 122.
1910 A, 271, pl. xv, fig 7.
1910 F, 600
1911 D, 379
1913 B, 627.
1914 C, 59.
1915 A, 578.
1916 B, 210, fig 52.
1917 A, 316
1918 B, 110
1925 A, 162.
- Zittel and Broili 1911 A, 165
1923 A, 174, 202 figs 271, 285, 308
- Diplocaulus copei Broili.**
Broili, F. 1904 A, 21, pl ii, pl iii, figs 1, 2
1904 A, 536 (Name only)
- Case, E C 1911 B, 22, 79, pl v, figs. 1, 2.
1915 A, 96
- Douthitt, H 1917 B, 4.
- Moodie, R L 1914 A, 17.
- Sternberg, C. H 1909 C, 254, 255.
- Williston, S. W 1909 D, 122.
1910 D, 534.
1918 B, 110.
Permian (Clear Fork), Texas.
- Diplocaulus limbatus Cope.**
Hay, O. P. 1902 A, 416
Beede, J W 1907 A, 120, 139.
Broili, F. 1904 A, 7, 24.
Case, E C 1902 B, 63 (This species?).
1911 B, 17, 79, 85, 91, pl. i, text-fig. 1.
1915 A, 96.
Cummins, W F 1908 A, 743.
Douthitt, H. 1917 B, 4, 33, fig. 7.
Huene, F 1912 E 472, figs. 1-3
1913 B, 386, fig 50.
Moodie, R L 1911 C, 377.
1912 E, 32
1914 A, 17
Williston, S. W. 1909 D, 122, pls. i-v.
1918 B, 110
Permian (Clear Fork), Texas
- Diplocaulus magnicornis Cope.**
Hay, O P 1902 A, 416
Abel, O 1919 A, 305, figs. 227, 228
1920 A, 353, fig 558
Beede, J W 1907 A, 119, 139
Broili, F 1902 A, 537, figs. 1, 2, 3.
1904 A, 7, 8, pl i, pl iv, figs 4-15, pl. v, figs 1-4
Case, E C 1902 B, 63 (This species?)
1911 B, 18 79, 88, 91, pls ii, iii, pl iv, fig 1, pl vi, fig 3, text-figs 2, 21-23
1915 A, 96, 125, text-fig. 13
Cummins, W F 1908 A, 743
Douthitt, H 1917 B, 4, 33, figs 1, 5, 7
Gould, C W 1901 A, 339
Jaekel O 1911 A 121, fig 135
Moodie, R L 1908 E, 564, fig 5
1908 G 521, figs 9-10
1912 E, 31, pls. i, ii
1914 A, 17
Phillips, W B 1912 A, 38
Sternberg C H 1903 E 94
1909 C 240, 253 255, fig 34
Williston S W 1902 N, 60 (1 magnicornis)
1909 D, 122
1918 B, 110
Permian (Clear Fork), Texas.
- Diplocaulus primigenius Mehl.**
Mehl, M G 1921 A, 48, figs 1, 2
Permian, Texas
- Diplocaulus pusillus Broili.**
Broili, F 1904 A, 24, pl vi, figs 1-4
Broili, F 1902 A, 536 (Name only).
1913 A, 100
Case E C 1911 B 22, 79, 85, text-fig 3.
1915 A 96 131
Douthitt, H 1917 B, 4, 34
Moodie R L 1904 A, 17
Williston, S W 1909 D, 122.
1910 D, 534
1918 B, 110.
Permian (Clear Fork), Texas.
- Diplocaulus salamandroides Cope.**
Hay, O P 1902 A, 416
Beede, J W. 1907 A, 139
Broili F 1902 A 539

- Broih, F. 1904 A, 7.
 Case, E. C. 1900 A, 710, pl 1, figs 16, 17; pl. v, fig. 17.
 1902 B, 63.
 1911 B, 16.
 1915 A, 96.
 Cope and Matthew 1915 A, pl iii, figs 21-23
 Douthitt, H. 1917 B, 4 33.
 Moodie, R. L. 1912 E, 38.
- Moodie, R. L. 1914 A, 17.
 Williston, S. W. 1909 D, 122
 Pennsylvanian (Upper), Illinois Permian
 (Wichita); Texas (Enid), Oklahoma
Diplocaulis sp. indet.
 Phillips, W. B. 1912 A, 41 Permian (Wichita),
 Texas
 Wegeman, C. H. 1915 A, 26 Permian (Wichita), Oklahoma

PLATYOPS Williston. Type *P. parvus* Williston.

- Williston, S. W. 1918 B, 110
 Huene, F. 1922 G, 447

Platyops parvus Williston.

- Williston S. W. 1918 B, 110, fig 19.
 Permian, Texas

Suborder MICROSAURIA Cope.

- Hay, O. P. 1902 A, 410.
 Arldt, T. 1907 D, 277 (Microsauridae); 636 (Microsauria); 662 (Lepospondyli)
 1907 E, 204 ("aistopoden").
 1909 B, 354 ("microsaurier")
 1916 A, 96, 101, 143 ("mikrosaurier").
 Boulenger, G. A. 1901 B, 401.
 1902 F, 383.
 1904 C, 480
 1917 C, 458 ("microsauriens").
 Broih, F. 1904 A, 26 (Lepospondyli).
 1908 E, 298 (Lepospondyli)
 1913 B, 520
 Broom, R. 1904 C, 169
 Carus, V. 1875 A, 485.
 Case, E. C. 1908 C, 578.
 1911 B, 14, 85.
 1915 A, 96
 Cope, E. D. 1891 N, 28, 29 (Microsauria).
 Cunningham and Boulenger 1912 A, 174.
 Depéret, C. 1907 B ("microsauriens").
 Dawson, J. W. 1888 A, 393
 Dollo, L. 1884 D, 91.
 Furrbringer, M. 1902 A, 217
 Gadow, H. 1901 B, 288 (Microsauria); 80 (Lepospondyli), 81 (Aistopodes).
 1902 B, 359 (Microsauria).
 Goodrich, E. S. 1916 A, 263.
 Gregory, W. K. 1911 A, 509
 1915 D, 365 (Microsauria, Aistopoda).
 1917 B, 318 (Microsauria, Aistopoda)
 Gregory, W. K. 1917 B, 312 ("microsaurs")
 1920 A, 224 ("microsaurs").
 Huene, F. 1912 E, 472 ("mikrosaurier").
 1912 F, 524 ("mikrosaurier").
 1913 G, 505.
 1920 C, 211.
 1926 A, 262 ("mikrosaurier")
 Jaekel, O. 1906 D, 189.
 1909 A, 194 (Lepospondyli); 194, 205, 209 (Microsauria); 209 (Aistopodi).
 1909 B, 599.
 1910 C, 324.
 1910 D, 123
 1911 A, 117 (Microsauria); 119 (Aistopodi).
 1914 A, 203 ("mikrosaurier").
 Lydekker, R. 1912 C, 15.
 Mehl, M. G. 1912 C, 408.
 Mner, R. W. 1925 A, 172 ("microsaurs").
- Moodie, R. L. 1908 B, 363 (Microsauria, Aistopoda).
 1908 F, 253 (Microsauria, Aistopoda)
 1908 G, 512 (Microsauria); 516, 520 (Aistopoda)
 1909 B, 15 (Microsauria); 25 (Aistopoda).
 1909 C, 118, 120 (Microsauria, Aistopoda).
 1909 D, 243
 1909 E, 38 (Microsauria), 39 (Aistopoda).
 1909 F, 216, 220 (Microsauria, Aistopoda).
 1909 G, 362
 1910 F, 234
 1911 C, 382
 1911 H, 241 (Microsauria); 243 (Aistopoda).
 1912 D, 326, 327, 351 (Microsauria); 326 (Lepospondylia)
 1912 E, 35
 1915 F, 190.
 1915 G, 373
 1915 H, 636
 1916 A, 4, 75, 76 (Microsauria); 75 (Lepospondylia), 5, 76 (Aistopoda a syn).
 1928 B, 216
 Nopce, F. 1923 H, 16, 135, 148.
 Pernier, E. 1920 A, 281 ("microsauriens")
 Pompecky, J. F. 1912 A, 343, 346 ("microsaurier," "aistopoden").
 Romer, A. S. 1922 B, 523 (Lepospondyli).
 1925 B, 461 (Lepospondylia).
 Schwarz, H. 1908 A, 324 ("aistopoden"), 315 (Lepospondylia).
 1908 B, 67 (Aistopoda), 79 (Microsauria); 93 (Lepospondylia).
 Steinmann, G. 1908 A, 208 ("microsaurier").
 Stromer, E. 1912 A, 59 (Lepospondyli).
 Swinnerton and Howes 1901 A, 70.
 Thevenin, A. 1906 A, 161.
 1910 A 39 ("aistopodes"); 40, 42 ("microsauriens")
 Watson, D. M. S. 1914 D, 171 ("microsaurs").
 Williston, S. W. 1908 B, 400.
 1909 A, 393 ("microsaurs").
 1909 D, 131.
 1910 D, 531.
 1910 F, 599 (Branchiosauria, Lepospondyli).
 1912 B, 655, 658 (Microsauria); 657 (Lepospondyli)
 1912 E, 258.
 1916 B, 209 (Lepospondyli).

Woodward, A. S. 1910 B, 464.
1911 C, 46.

Zittel and Broili 1911 A, 162 (Lepospondyli).
1923 A, 199 (Lepospondyli).
Zittel, Eastman, etc. 1902 A, 125 (Lepospondyli).

HYLONOMIDÆ Fritsch.

Hay, O. P. 1902 A, 412.
Abel, O. 1919 A, 309.
Cope, E. D. 1891 N, 30.
Gregory, W. K. 1917 B, 313, 318
Huene, F. 1913 G, 505.
1926 A, 262.

Jaekel, O. 1909 A, 209.
1911 A, 66
Moodie, R. L. 1916 A, 78.
Schwarz, H. 1908 B, 102 ("hylonomiden").
Zittel and Broili 1923 A, 199.
Zittel, Eastman, etc. 1902 A, 125 (Microsauri-
dæ)

HYLONOMUS Dawson. Type *H. lyelli* Dawson.

Hay, O. P. 1902 A, 412.
Abel, O. 1919 A, 345
Bell, W. A. 1913 A, 341
Boulenger, G. A. 1902 F, 383, fig. 3.
Broili, F. 1908 F, 58.
1913 B, 520.
Case, E. C. 1908 C, 578
Depèret, C. 1912 A, 704.
Gadow, H. 1901 B, 289.
1902 B, 359, 361.
Heilprin, A. 1887 A, 310.
Huxley, T. H. 1863 C, 571.
Liddekker, R. 1903 D, 75.
Moodie, R. L. 1911 C, 383.
1915 E, 463.
1916 A, 78
Owen, R. 1876 E, 45
Steiner, H. 1921 A, 537.
Thevenin, A. 1906 A, 161
Williston, S. W. 1910 A, 267.
1911 B, 54.
1912 B, 657.
Zittel and Broili 1911 A, 162
1923 A, 172, 199, fig. 266.
Zittel, Eastman, etc. 1902 A, 125.
Hylonomus latidens Dawson.
Hay, O. P. 1902 A, 412.
Lambe, L. M. 1904 C, 35, 45 (Hylonemus).
Moodie, R. L. 1914 A, 20.
1916 A, 80, pl. x.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus lyelli Dawson.

Hay, O. P. 1902 A, 412
Bell, W. A. 1913 A, 343.
Broili, F. 1908 F, 58.
Lambe, L. M. 1904 C, 35, 45 (Hylonemus)
Mackie, S. J. 1863 F, 439.
Moodie, R. L. 1914 A, 20.
1916 A, 79, pl. ix
Thevenin, A. 1906 A, 161.
1910 A, 42.
Zittel and Broili 1911 A, 162, fig. 288
Zittel, Eastman, etc. 1902 A, 125, fig. 209.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus multidens Dawson.

Hay, O. P. 1902 A, 412
Lambe, L. M. 1904 C, 35, 45 (Holonemus).
Moodie, R. L. 1914 A, 20.
1916 A, 80.
Pennsylvanian (Joggins); Nova Scotia.

Hylonomus wymani Dawson.

Hay, O. P. 1902 A, 412.
Bell, W. A. 1913 A, 343.
Broili, F. 1908 F, 59 (H. wymanni).
Lambe, L. M. 1904 C, 35, 45 (Holonemus).
Mackie, S. J. 1863 F, 439
Moodie, R. L. 1914 A, 20
1916 A, 80.
Pennsylvanian (Joggins), Nova Scotia

SMILERPETON Dawson. Type *Hylonomus acidentatus* Dawson.

Hay, O. P. 1902 A, 413.
Moodie, R. L. 1916 A, 81.
Smilerpeton acidentatum Dawson.
Hay, O. P. 1902 A, 413.
Bell, W. A. 1913 A, 343 (Hylonomus).

Broili, F. 1908 F, 59 (Hylonomus)
Lambe, L. M. 1904 C, 35, 45.
Moodie, R. L. 1914 A, 26.
1916 A, 81, pl. xii, fig. 18.
Pennsylvanian (Joggins); Nova Scotia.

HYLERPETON Owen. Type *H. dawsonii* Owen.

Hay, O. P. 1902 A, 413.
Broili, F. 1908 F, 58.
Gadow, H. 1896 A, 28
1902 B, 361.
Heilprin, A. 1887 A, 310.
Huxley, T. H. 1863 C, 571.
Moodie, R. L. 1912 D, 327.
1916 A, 82

Hylerpeton dawsonii Owen.

Hay, O. P. 1902 A, 413.
Bell, W. A. 1913 A, 343.
Lambe, L. M. 1904 C, 35, 45.
Mackie, S. J. 1863 F, 439 (H. dawsoni).
Moodie, R. L. 1914 A, 19.
1916 A, 82, pl. vii (H. dawsoni).
Pennsylvanian (Joggins); Nova Scotia.

Hylerpeton intermedium Dawson.

- Hay, O P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19.
 1916 A, 83.
 Pennsylvanian (Joggins) Nova Scotia.

Hylerpeton longidentatum Dawson.

- Hay, O P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19.
 1916 A, 83, pl. xi.
 Pennsylvanian (Joggins), Nova Scotia.

FRITSCHIA Dawson. Type *Hylerpeton curtidentatum* Dawson.

- Hay, O P. 1902 A, 413.
 Moodie, R. L. 1916 A, 84.

Fritschia curtidentata Dawson.

- Hay, O. P. 1902 A, 413.
 Lambe, L. M. 1904 C, 35, 45.
 Moodie, R. L. 1914 A, 19
 1916 A, 84, pl. viii.
 Pennsylvanian (Joggins); Nova Scotia.

TUDITANIDÆ Cope.

- Hay, O P. 1902 A, 415.
 Fritsch, A. 1883 A, 173 (Microbrachidæ)
 Gregory, W. K. 1917 B, 313, 318.
 Huene, F. 1913 G, 505 (Microbrachidæ)

- Moodie, R. L. 1911 H, 241.
 1916 A, 85.
 Schwarz, H. 1908 B, 91 (Microbrachidæ).

TUDITANUS Cope. Type *T. punctulatus* Cope.

- Hay, O P. 1902 A, 415.
 Amalitsky, V. P. 1921 A, 4.
 1924 A, 52.
 Broili, F. 1904 A, 27.
 1908 F, 60
 Case, E. C. 1917 A, 135.
 1919 B, 200
 Cope, E. D. 1885 DD 305
 Gregory, W. K. 1915 D, 332.
 Huene, F. 1912 E, 472.
 Moodie R. L. 1909 A, 347.
 1909 B, 15, 16
 1916 A, 85
 Schwarz, H. 1908 B, 91.

Tuditanus brevirostris Cope.

- Hay, O P. 1902 A, 415
 Moodie, R. L. 1909 A, 356, pl. lxxiv, fig. 4
 1914 A, 27.
 1916 A, 88.
 Pennsylvanian (Linton); Ohio.

Tuditanus longipes Cope.

- Hay, O P. 1902 A, 415.
 Moodie, R. L. 1914 A, 27.
 1916 A, 89, fig. 20.
 Pennsylvanian (Linton); Ohio.

ERPETOSAURUS Moodie. Type *Tuditanus radiatus* Cope.

- Moodie R. L. 1909 A, 347, 348.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Hay, O P. 1902 A, 415 (Tuditanus, in part).
 Moodie, R. L. 1909 F, 219.
 1916 A, 96, fig. 22.

Erpetosaurus acutirostris Moodie.

- Moodie, R. L. 1909 A, 349, pl. lxi, fig. 1.
 1914 A, 18.
 1916 A, 107, fig. 22.
 Pennsylvanian (Linton); Ohio.

Tuditanus minimus Moodie.

- Moodie, R. L. 1909 E, 56, fig. 10
 1909 B 17, 23, pl. viii, fig. 2.
 1911 H, 242.
 1914 A, 27.
 1916 A, 91.
 Pennsylvanian (Cannelton); Pennsylvania

Tuditanus punctulatus Cope.

- Hay, O P. 1902 A, 415.
 Broili, F. 1904 A, 27
 Pennsylvanian (Linton), Ohio.
 See *Isodectes* Cope.

Tuditanus walcotti Moodie.

- Moodie, R. L. 1909 B, 16, pl. vi, figs. 1, 2;
 pl. vii, figs. 1, 2.
 1910 A 368.
 1914 A, 27
 1915 A, 192.
 1916 A, 93, fig. 21.
 Villiers, C. G. S. 1922 A, 218.
 Pennsylvanian (Linton); Ohio.

Erpetosaurus minutus Moodie.

- Moodie, R. L. 1909 B, 21, pl. viii, fig. 1.
 1909 A, 347.
 1914 A, 18
 1916 A, 104, pl. xx, fig. 1; text-fig. 22.
 Pennsylvanian (Cannelton); Pennsylvania

Erpetosaurus obtusus (Cope).

- Hay, O. P. 1902 A, 415 (Tuditanus).
 Moodie, R. L. 1909 A, 347, 350, fig. 2.
 1914 A, 18.
 1916 A, 98.
 Pennsylvanian (Linton); Ohio

Erpetosaurus radiatus (Cope).

Hay, O. P. 1902 A, 415 (Tuditanus).

Broth, F. 1904 A, 27 (Tuditanus).

Moodie, R. L. 1909 A, 347, pl. lxii, fig. 1.

1914 A, 18

1916 A, 97, pl. xxv, fig. 1; text-fig. 22

Pennsylvanian (Linton); Ohio.

Erpetosaurus sculptilis Moodie.

Moodie, R. L. 1909 E, 61, figs. 11, 12 (Tuditanus).

1909 A, 347.

1909 B, 22.

1914 A, 18

1916 A, 105, pl. xviii, fig. 1

Pennsylvanian (Cannelton), Pennsylvania

Erpetosaurus tabulatus (Cope).

Hay, O. P. 1902 A, 415 (Tuditanus).

Moodie, R. L. 1908 G, 520, 522, fig. 8 (Tuditanus).

Moodie, R. L. 1909 A, 347, pl. lxii, fig. 2; text-fig. 1; 351, pl. lxx, fig. 2, pl. lxxiv, fig. 3 (This sp. ?)

1909 B, 21.

1909 E, 52, figs. 8, 9 (Tuditanus)

1914 A, 18.

1915 B, pl. 1, fig. 1

1916 A, 100, pl. xxv, fig. 2; text-fig. 22

Pennsylvanian (Linton), Ohio

Erpetosaurus tuberculatus Moodie.

Moodie, R. L. 1909 A, 348, pl. lxvii

1914 A, 18

1916 A, 109, pl. xxvi, fig. 1.

Pennsylvanian (Linton), Ohio

Erpetosaurus sp. indet.

Moodie, R. L. 1909 A, 352, pl. lxi, fig. 2. Carboniferous (Linton); Ohio

ODONTERPETON Moodie. Type *O. triangularis* Moodie.

Moodie, R. L. 1909 B, 19.

Case, E. C. 1917 A, 135

1919 B, 200

Moodie, R. L. 1916 A, 110.

Odonterpeton triangularis Moodie.

Moodie, R. L. 1909 B, 19, pl. vi, fig. 3

1909 F, 217

1914 A, 23.

1916 A, 110, fig. 22

Pennsylvanian (Linton), Ohio

CROSSOTELIDÆ Williston.

Williston, S. W. 1909 D, 131.

Ardt, T. 1912 A, 656.

1916 A, 142 ("crossoteliden").

Case, E. C. 1911 B, 14

1915 A, 97.

Moodie, R. L. 1912 E, 38

Williston, S. W. 1910 D, 534

1916 B, 210

A family of somewhat uncertain position among the Microsauria

CROSSOTELOS Case. Type *C. annulatus* Case.

Case, E. C. 1911 B, 14, 70.

1902 B, 63, 65.

1908 C, 579

1915 A, 132.

Gregory, W. K. 1917 B, 312

Moodie, R. L. 1911 C, 377

Schuchert, C. 1910 A, 570

Williston, S. W. 1909 D, 130.

1910 A, 271, 272, pl. xv, figs. 2, 3

1910 D, 534.

1916 B, 211, fig. 53

Crossotelos annulatus Case.

Case, E. C. 1902 B, 63, 65

Beede, J. W. 1907 A, 139 (C. annulata)

Case, E. C. 1911 B, 70, text-figs. 18, 19

1915 A, 97.

Moodie, R. L. 1914 A, 17.

Williston, S. W. 1910 D, 534

Permian (Emd), Oklahoma

STEGOPIDÆ Moodie.

Moodie, R. L. 1909 E, 79.

Gregory, W. K. 1917 B, 313, 317, 320.

Moodie, R. L. 1916 A, 112.

See the literature cited under *Keraterpeton*.**STEGOPS Moodie. Type *Ceraterpeton divaricatum* Cope.**

Moodie, R. L. 1909 E, 79.

Case, E. C. 1917 A, 135.

1919 B, 200.

Gregory, W. K. 1917 B, 320.

1920 A, 223.

Huene, F. 1912 E, 472.

1922 G, 447.

Moodie, R. L. 1916 A, 112

Stegops divaricata (Cope).

Hay, O. P. 1902 A, 414 (Keraterpeton)

Gregory, W. K. 1915 D, 337.

1920 A, 115, fig. 13.

Moodie, R. L. 1908 G, 520.

1909 E, 79, figs. 21, 22.

1914 A, 26.

1916 A, 113, pl. xxv, fig. 3 text-fig. 23

Pennsylvanian; Ohio.

UROCORDYLIDÆ Lydekker.

- Lydekker* R 1889, in Nicholson and Lydekker 1889 A, 1025
Hay, O P 1902 A, 414 (Ptyonidæ, part).
Ardt, T. 1909 B, 354 ("urocordyliden").
 1912 A, 650
 1916 A, 142 ("urocordyliden," "diceratiden").
- Gregory*, W. K. 1917 B, 313, 317, 318.
Hancock and Atthey 1869 C, 182 (Urocordylus)
Huene, F. 1922 G, 446 (Nectridæ)
Lydekker, R 1890 A, 196
Moodie, R L 1909 A, 357.
 1916 A, 115.

DICEROSAURUS Jaekel. Type *Tuditanus punctolineatus* Cope.

- Jaekel*, O 1903 A, 112
Abel, O 1919 A, 255, 299.
Ardt, T 1909 B, 354 ("dicerosauriden")
Broili, F. 1904 A, 27.
 1926 A, 210
Case, E C 1917 A, 134.
 1919 B, 200.
Gregory, W. K 1917 B, 318.
Huene, F. 1912 E, 472.
 1922 G, 447, 453
Jaekel, O 1909 A, 196, 198, 210, fig 1
Lakjer, T 1927 A, 192.
Moodie R L. 1909 A, 352, 357
 1909 E, 63
 1916 A, 115
Nopcsa, F. 1923 E, 1052
Stappenbeck, R. 1905 A, 402.
Watson, D M S 1917 C, 170.
Williston, S W 1909 D, 122.
Zittel and Broili 1911 A, 164.
 See also the literature cited under *Keraterpeton*
- Dicerosaurus lævis** Moodie.
Moodie R L 1909 E, 63, figs 13, 14
 1914 A 17
 1915 B, pl 1, fig 2 (Eriposaurus).
 1916 A, 120, fig 24
 Pennsylvanian (Linton), Ohio
- Dicerosaurus punctolineatus** (Cope).
Hay, O P. 1902 A, 414 (Keraterpeton)
Abel, O 1919 A, 300, fig 224
Baird, S. F. 1876 A, cci (Ceraterpeton)
Broili, F 1904 A 27 (C. "lenni-corne" a syn).
 1926 A, 209, fig. 6.
Fuchs, H 1909 B, 115, fig. 3.
 1920 A, 363.
Hay, O P 1902 A, 415 (*Tuditanus mordax*)
Jaekel O 1903 A 112 pls ii-v (Ceraterpeton recticorne a syn)
 1903 F, 30, fig 2
 1909 B, 600, fig. 10
 1911 A, 120, figs. 133, 134
 1915 A, 101, 112, fig 6.
Moodie, R L 1908 G, 536
 1909 A, 356, pl. lxxv (D punctolineatus);
 pl. lxxiv, fig 2 (*Tuditanus mordax*)
 1909 B, 22, 25.
 1914 A, 17.
 1916 A, 116, pl. xiv, fig 4; pl xv; pl xvi.
 figs 1, 5, pl xxii, fig 5
Newberry, J. S 1874 G, 179 ("Keraterpeton")
Watson, D M S 1913 F, 959.
 Pennsylvanian (Linton); Ohio.
- Dicerosaurus robustus** Moodie.
Moodie, R L. 1909 E, 67, fig 15
 1909 A, 355, pl lxxiii, fig 2
 1914 A, 17.
 1916 A, 122, fig 24.
 Pennsylvanian (Linton); Ohio

EOSERPETON Moodie. Type *Ceraterpeton tenuicorne* (Cope).

- Moodie*, R L 1909 E, 76
Case, E C 1917 A, 134
 1919 B, 200
Huene, F. 1912 E, 472.
 1922 G, 447
Moodie, R. L 1909 A. 355, pl. lxxiii, fig. 1.
 1916 A, 123.
 See also the literature cited under *Keraterpeton*.
- Eoserpeton tenuicorne** (Cope).
Hay, O P. 1902 A, 414 (Keraterpeton).
- Broili*, F. 1904 A, 27 (Ceraterpeton "lenni-corne," syn. of C punctolineatus).
Gregory, W. K 1917 B, 319
Jaekel, O. 1903 A, 112 (C. "recticorne," syn of *Dicerosaurus punctolineatus*).
Merrill, G. P. 1907 A, 12 (Keraterpeton).
Moodie, R. L 1909 A, pl. lxxiii, fig 1.
 1909 B, 23
 1909 E, 76, fig. 20.
 1914 A, 18
 1916 A, 123, fig 25.
Woodward, A. S. 1897 D, 298 (Keraterpeton).
 Pennsylvanian (Linton); Ohio.

KERATERPETON Huxley. Type *K. galiani* Huxley.

- Hay*, O. P. 1902 A, 414.
Abel, O 1912 F, 218 (Ceraterpeton).
 1919 A, 298 (Ceraterpeton)
Ardt, T 1916 A, 100.
Baird, S F. 1876 A, cci, 308 (Ceraterpeton).
Broili, F. 1905 A, 13 (Ceraterpeton).
 1908 F, 60.
- Cope*, E. D. 1880 U, 144 (Ceraterpeton).
Cunningham and Boulenger 1912 A, 171.
Depéret, C. 1912 A, 704
Etheridge, R. 1866 A, 4.
Gadow, H. 1896 A, 23.
 1901 B, 288.
Geol. Magazine 1912 A, 519 (Ceraterpeton).

- Gill, T. 1881 A, 388 (Ceraterpeton).
 Gregory, W. K. 1915 D, 332 (Ceraterpeton).
 1917 B, 318.
 Hancock and Atthey 1869 C, 184.
 Howes, G. B. 1902 A, 525.
 Huene, F. 1922 G, 447 (Ceraterpeton).
 Hutchinson, H. N. 1910 A, 100, fig. 22 (Ceraterpeton).
 Huxley, T. H. 1871 A, 183, pl. xvii.
 Jaekel, O. 1903 A, 109 (Ceraterpeton).
 1909 A, 210 (Ceraterpeton).
 Moodie, R. L. 1915 G, 374 (Ceraterpeton).
 1908 G, 520, fig. 7 (Ceraterpeton).
 Sewertzoff, A. N. 1908 A, 359 (Ceraterpeton).

- Schmalhausen, J. 1917 A, 106 (Ceraterpeton).
 Thevenin, A. 1910 A, 40.
 Watson, D. M. S. 1913 F, 958 (Ceraterpeton).
 1916 E, 86 (Ceraterpeton).
 Williston, S. W. 1908 B, 400 (Ceraterpeton).
 Woodward, A. S. 1897 D, 293, pl. xii (Ceraterpeton).
 Zittel and Broili 1911 A, 164.
 Zittel, Eastman, etc. 1902 A, 126.
 The American species formerly referred to this genus have become each the type of a new genus, *Stegops*, *Eoserpeton*, and *Dicra-tosaurus*.

AMPHIBAMIDÆ Moodie.

- Moodie, R. L. 1910 C, 233.
 Gregory, W. K. 1917 B, 313, 317, 319.

- Moodie, R. L. 1911 H, 241.
 1912 D, 326.
 1916 A, 126.

AMPHIBAMUS Cope. Type *A. grandiceps* Cope.

- Hav, O. P. 1902 A, 411.
 Arldt, T. 1916 A, 98.
 Cope, E. D. 1885 DD, 305.
 Huene, F. 1912 E, 472.
 Moodie, R. L. 1909 E, 40.
 1912 D, 327.
 1916 A, 126.
 Osborn, H. F. 1916 E, 613, fig. 24.
 1917 B, 178, 179, fig.
 Sewertzoff, A. N. 1908 A, 359.
 Steiner, H. 1921 A, 535.
 Zittel and Broili 1911 A, 163.
 1923 A, 200.

Amphibamus grandiceps Cope.

- Hav, O. P. 1902 A, 411.
 Andrae, A. 1903 B, 442.
 Eastman, C. R. 1902 B, 97.
 1902 G, 541.
 Huene, F. 1913 G, 502, fig. 2 (Amphibamus).
 Hutchinson, H. N. 1910 A, 102, fig. 24.
 Moodie, R. L. 1908 E, 564, fig. 3.

- Moodie, R. L. 1909 E, 40, 82, fig. 24.
 1909 F, 218, fig. 1.
 1910 A, 368.
 1910 C, 233.
 1911 H, 242, pl. iii.
 1912 A, 277.
 1912 D, 324, 326, 343, pl. i, figs. 1, 2; pl. v, fig. 3, pl. vii, fig. 1, pls. xi-xiii.
 1914 A, 14.
 1915 A, 192.
 1916 A, 127, pl. iii, fig. 7, pl. iv, figs. 5, 6, pl. xiv, figs. 1, 2; text-figs. 26-28.
 Woodward, A. S. 1897 C, 378.
 Pennsylvanian (Mazon Creek); Illinois.

Amphibamus thoracatus Moodie.

- Moodie, R. L. 1911 B, 431, fig. 2.
 1912 A, 277.
 1912 D, 326, 347, pl. v, fig. 2.
 1914 A, 14.
 1916 A, 131.
 Pennsylvanian (Mazon Creek), Illinois.

CEPHALERPETON Moodie. Type *C. ventriarmatum* Moodie.

- Moodie, R. L. 1912 D, 327, 349.
 1916 A, 132.
Cephalerpeton ventriarmatum Moodie.
 Moodie, R. L. 1912 D, 326, 350, pl. i, fig. 4; pl. vii, fig. 2.

- Moodie, R. L. 1912 A, 278.
 1914 A, 16.
 1916 A, 133, pl. iv, fig. 4; text-fig. 29.
 Pennsylvanian (Mazon Creek), Illinois.

NYRANIIDÆ Lydekker.

- Lydekker, R. 1890 A, 166.
 Fritsch, A. 1889 B (1885), 33 (Nyrana).

- Moodie, R. L. 1916 A, 135.

ICHTHYERPETON Huxley. Type *I. bradleyæ* Huxley.

- Huxley, T. 1866, in Wright and Huxley 1866 A, 168.
 Arldt, T. 1916 A, 100.
 Etheridge, R. 1866 A, 4.
 Gregory, W. K. 1917 B, 313.
 Huxley, T. 1867 B, 367 (Ichthyerpeton); 369 (Erpetocephalus).
 Lydekker, R. 1890 A, 168 (Ichthyerpetum).
 Moodie, R. L. 1916 A, 135.

- Zittel, K. A. 1890 A, 381 (Ichthyerpeton, Erpetocephalus).

Ichthyerpeton squamosum Moodie.

- Moodie, R. L. 1909 E, 69.
 Gregory, W. K. 1917 B, 320.
 Moodie, R. L. 1909 B, 24.
 1914 A, 20.
 1916 A, 135.
 Pennsylvanian (Linton); Ohio.

CERCARIMORPHUS Cope. Type *C. parvisquamis* Cope.

- Hay, O. P. 1902 A, 417.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 313, 319.
 Moodie, R. L. 1915 E, 463.
 1916 A, 137.

Cercarimorphus parvisquamis Cope.

- Hay, O. P. 1902 A, 417.
 Moodie, R. L. 1914 A, 16.
 1916 A, 137, pl. xxi, figs. 3, 4; pl. xxiv,
 figs. 2, 3.
 Pennsylvanian (Linton); Ohio.

PTYONIIDÆ Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 304.
 Broili, F. 1905 A, 14 (Ceratopetontidæ).
 Gregory, W. K. 1917 B, 313, 317, 319.
 Huene, F. 1913 G, 505 (Ptyonidæ).

- Huene, F. 1920 C, 211 (Ptyonidæ).
 1926 A, 262 (Ptyonidæ).
 Moodie, R. L. 1916 A, 139.
 Schwarz, H. 1908 A, 324 ("ptyoniden").
 1908 B, 79 (Ptyonidæ).

PTYONIUS Cope. Type *P. pectinatus* Cope.

- Hay, O. P. 1902 A, 414.
 Arldt, T. 1916 A, 101.
 Broili, F. 1908 F, 59.
 Case, E. C. 1917 A, 135.
 1919 B, 200.
 Cope, E. D. 1885 DD, 305.
 Gregory, W. K. 1917 B, 319.
 Hutchinson, H. N. 1910 A, 103, pl. viii.
 Jaekel, O. 1903 A, 134.
 1909 A, 207, fig. 13.

Moodie, R. L. 1908 F, 255.

 1908 G, 520.

 1909 B, 24.

 1909 C, 120.

 1909 E, 38.

 1916 A, 139, fig. 30.

 1920 B, 469, fig. 5 ("creature").

Osborn, H. F. 1916 E, 613, fig. 24.

 1917 B, 179, fig.

Schwarz, H. 1908 B, 82.

Watson, D. M. S. 1913 F, 959.

 1917 C, 170.

Zittel, Eastman, etc. 1902 A, 126 (Syn. of *Urocordylus*).

Ptyonius marshii Cope.

- Hay, O. P. 1902 A, 414.
 Moodie, R. L. 1914 A, 25.
 1916 A, 141.
 Pennsylvanian (Linton); Ohio.

Ptyonius nummifer Cope.

- Hay, O. P. 1902 A, 414.

Moodie, R. L. 1909 A, 356, pl. lxiii, fig. 3 (P. nummifer, *errore*).

 1909 B, 25.

 1914 A, 25.

 1915 B, pl. 1, fig. 4.

 1916 A, 142.

Pennsylvanian (Linton); Ohio.

Ptyonius pectinatus Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 230, figs. 179, 180.
 1921 A, 298, fig. 112.
 Moodie, R. L. 1909 B, 24, 25, pl. viii, fig. 3.
 1914 A, 25.
 1916 A, 139, pl. xx, fig. 2.
 Schwarz, H. 1908 B, 82, figs. 23, 24, 26.
 Pennsylvanian (Linton); Ohio.

Ptyonius serrula Cope.

- Hay, O. P. 1902 A, 415.
 Moodie, R. L. 1914 A, 25.
 1916 A, 142.
 Pennsylvanian (Linton); Ohio.

Ptyonius vinchellianus Cope.

- Hay, O. P. 1902 A, 415.
 Abel, O. 1919 A, 229, fig. 178.
 1921 A, 305, fig. 118.
 Moodie, R. L. 1914 A, 25.
 1916 A, 141.
 Schwarz, H. 1908 B, 82, fig. 27 (This species?).
 Pennsylvanian (Linton); Ohio.

OSTEOCEPHALUS Cope. Type *O. amphumimus* Cope = *O. remex* Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1921 A, 298.
 Arldt, T. 1916 A, 101.
 Broili, F. 1908 F, 59.
 Case, E. C. 1915 A, 132 (Osteocephalus).
 1917 A, 135.
 1919 B, 200.
 Cope, E. D. 1880 U, 144.
 1885 DD, 305.
 Gill, T. 1881 A, 388.
 Gregory, W. K. 1917 B, 319.
 Moodie, R. L. 1908 F, 255.
 1909 F, 219.
 1916 A, 143, fig. 31.
 1920 B, 468, fig. 5 ("creature").

- Schwarz, H. 1908 B, 82, 86.
 Watson, D. M. S. 1917 C, 170.
 Zittel, Eastman, etc. 1902 A, 126 (Syn. of *Urocordylus*).

Osteocephalus rectidens Cope.

- Hay, O. P. 1902 A, 414.
 Moodie, R. L. 1914 A, 23.
 1916 A, 145.
 Pennsylvanian (Linton); Ohio.

Osteocephalus remex Cope.

- Hay, O. P. 1902 A, 414.
 Abel, O. 1919 A, 229, fig. 177.
 Moodie, R. L. 1909 B, 27.

Moodie, R. L. 1914 A, 23
1916 A, 143.

Schwarz, H. 1908 B, 87, figs. 29, 30.
Pennsylvanian (Linton); Ohio.

THYRSIDIUM Cope. Type *T. fasciculare* Cope.

Hay, O. P. 1902 A, 416.
Ardt, T. 1916 A, 101.
Case, E. C. 1917 A, 135.
1919 B, 200.
Moodie, R. L. 1916 A, 145.
Schwarz, H. 1908 B, 70.
Zittel and Broili 1911 A, 166 (Tyrsidium)

Thyrsideium fasciculare Cope.
Hay, O. P. 1902 A, 416
Abel, O. 1919 A, 226, 304, fig. 225.
Moodie, R. L. 1909 B, 27
1914 A, 27
1916 A, 146.
Schwarz, H. 1908 B, 70, figs. 5-9.
Pennsylvanian (Linton); Ohio.

ICHTHYCANTHIDÆ Moodie.

Moodie, R. L. 1916 A, 171

Gregory, W. K. 1917 B, 313, 319

ICHTHYCANTHUS Cope. Type *I. ohioensis* Cope.

Hay, O. P. 1902 A, 422.
Case, E. C. 1911 B, 30.
1917 A, 134.
1919 B, 200.
Moodie, R. L. 1915 A, 509.
1916 A, 171.
Romer, A. S. 1922 B, 564.
Ichthyacanthus ohioensis Cope.
Hay, O. P. 1902 A, 422
Moodie, R. L. 1911 E, 240.
1914 A, 20.
1915 A, 509.

Moodie, R. L. 1916 A, 171
Pennsylvanian (Linton); Ohio
Ichthyacanthus platypus Cope.
Hay, O. P. 1902 A, 422 (Eryops?).
Case, E. C. 1911 B, 30 (Eryops?).
Moodie, R. L. 1911 E, 240 (Eryops).
1914 A, 19 (To Eryops?).
1915 A, 509 fig. 2
1915 C 34
1916 A, 172, pl. xxiii, fig. 1
Pennsylvanian (Linton), Ohio.

MOLGOPHIDÆ Cope.

Hay, O. P. 1902 A, 411.
Abel, O. 1919 A, 307 (Phlegethontidæ, Molgophidæ).
Ardt, T. 1912 A, 650.
1916 A 101, 143 ("molgophiden").
Gregory, W. K. 1917 B, 313, 317, 319.
Huene, F. 1913 G, 505 (Molgophidæ, Phlegethontidæ)
1920 C, 211 (Molgophidæ, Phlegethontidæ)

Jaekel, O. 1909 A, 209.
Kingsley, J. S. 1902 B, 327 (Austopoda).
Moodie, R. L. 1912 D, 326.
1916 A, 147
Schwarz, H. 1908 B 73 (Molgophidæ), 74
(Phlegethontidæ)
Zittel and Broili 1911 A, 165 (Austopodidæ).
Zittel, Eastman, etc. 1902 A, 127 (Austopodidæ).

MOLGOPHIS Cope. Type *M. macrurus* Cope.

Hay, O. P. 1902 A, 412.
Broili, F. 1908 E, 298.
1908 F, 59.
Case, E. C. 1917 A, 134.
1919 B, 200.
Jaekel, O. 1903 A, 134.
Moodie, R. L. 1908 F, 255.
1909 B, 27.
1909 E, 38.
1916 A, 147.
Schwarz, H. 1908 B, 73, figs. 10, 11.
Zittel and Broili 1911 A, 166.
1923 A, 203.

Moodie, R. L. 1916 A 148 fig. 32
Schwarz, H. 1908 B, 73.
Pennsylvanian (Linton); Ohio.

Molgophis macrurus Cope.

Hay, O. P. 1902 A, 412
Moodie, R. L. 1908 F, 254
1911 H, 242
1914 A, 23.
1916 A, 147.
Pennsylvanian (Linton); Ohio.

Molgophis wheatleyi Cope.

Hay, O. P. 1902 A, 412
Moodie, R. L. 1914 A, 23.
1915 B, pl. 1, fig. 3.
1916 A, 149
Pennsylvanian (Linton); Ohio.

Molgophis brevicostatus Cope.

Hay, O. P. 1902 A, 412.
Moodie, R. L. 1909 B, 27.
1914 A, 23.

ERPETOBRACHIUM Moodie. Type *E. mazonensis* Moodie.

Moodie, R. L. 1912 D, 353.
1916 A, 150

Erpetobranchium mazonensis Moodie.

Moodie, R. L. 1912 D, 326, 353, pl. II, fig. 2;
pl. VIII, fig. 3
1912 A, 278.
1916 A, 150, pl. III, fig. 3; text-fig. 15
Pennsylvanian (Mazon Creek), Illinois.

PLEUROPTYX Cope. Type *P. clavatus* Cope.

Hay, O. P. 1902 A, 417
Case, E. C. 1917 A, 135.
1919 B, 200.
Moodie, R. L. 1909 B, 27.
1916 A, 151.
Schwarz, H. 1908 B, 73.

Pleuroptyx clavatus Cope.

Hay, O. P. 1902 A, 417.
Baurd, S. F. 1876 A, cc.
Moodie, R. L. 1909 B, 27.
1914 A, 25.
1916 A, 151, fig. 33.
Udden, J. A. 1902 B, 121.
Pennsylvanian (Linton); Ohio, Iowa.

PHLEGETHONTIA Cope. Type *P. linearis* Cope.

Hay, O. P. 1902 A, 411.
Abel, O. 1919 A, 234, 307, fig. 182.
1921 A, 298 ("phlegethontiden").
Broili, F. 1908 E, 298
1908 F, 59
Case, E. C. 1917 A, 135.
1919 B, 200.
Cope, E. D. 1885 DD, 305
Moodie, R. L. 1908 F, 255
1916 A, 153.
Schwarz, H. 1908 B, 74.
Zittel and Broili 1911 A, 166
1923 A, 203.

Phlegethontia linearis Cope.

Hay, O. P. 1902 A, 411.

Abel, O. 1919 A, 230, fig. 182.
1921 A, 298, fig. 111.
Cope, E. D. 1885 DD, 305
Moodie, R. L. 1914 A, 24.
1916 A, 154
Schwarz, H. 1908 B, 74, figs. 12, 13.
Pennsylvanian (Linton); Ohio.

Phlegethontia serpens Cope.

Hay, O. P. 1902 A, 411.
Moodie, R. L. 1914 A, 24.
1916 A, 154
Schwarz, H. 1908 B, 74.
Pennsylvanian (Linton), Ohio.

SAUROPLEURIDÆ Hay.

Hay, O. P. 1902 A, 419
Gregory, W. K. 1917 B, 313, 318.

Moodie, R. L. 1911 A, 489
1916 A, 155.

SAUROPLEURA Cope. Type *S. digitata* Cope.

Hay, O. P. 1902 A, 419.
Broili, F. 1908 F, 59
Case, E. C. 1917 A, 135.
1919 B, 200.
Cope, E. D. 1885 DD, 305.
Gregory, W. K. 1917 B, 319.
Moodie, R. L. 1909 A, 355, pl. IX, fig. 1.
1909 B, 15.
1914 A, 14.
1916 A, 155.
Steiner, H. 1921 A, 537.

Sauropleura digitata Cope.

Hay, O. P. 1902 A, 419
Moodie, R. L. 1914 A, 26.
1916 A, 157, pl. XX, fig. 4.
Pennsylvanian (Linton beds); Ohio.

Sauropleura enchodus (Cope).

Hay, O. P. 1902 A, 423 (Anisodexis).
Moodie, R. L. 1911 E, 240 (Anisodexis?)
1914 A, 14 (Sauropleura?).
1916 A, 162, pl. XVI, fig. 4.
Pennsylvanian (Linton beds); Ohio.

Sauropleura foveata (Cope).

Hay, O. P. 1902 A, 419
Moodie, R. L. 1916 A, 161.
Pennsylvanian (Linton); Ohio.

Sauropleura longidentata Moodie.

Moodie, R. L. 1909 E, 74, figs. 18, 19.
1914 A, 26
1916 A, 160, pl. XVI, figs. 2, 3.
Pennsylvanian (Linton); Ohio.

Sauropleura newberryi Cope.

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1914 A, 26
1916 A, 158.
Pennsylvanian (Linton); Ohio.

Sauropleura pauciradiata Cope.

Hay, O. P. 1902 A, 419.
Moodie, R. L. 1916 A, 158, fig. 34.
Pennsylvanian (Linton); Ohio.

Sauroplorea scutellata (Newb.).

Hay, O. P. 1902 A, 419.

Moodie, R. L. 1909 A, 355.
1909 B, 26.

Moodie, R. L. 1914 A, 26.

1916 A, 156, pl. xiv, fig. 3; pl. xxi, fig. 5
Pennsylvanian (Linton); Ohio.**CTENERPETON** Cope. Type *C. alveolatum* Cope.

Hay, O. P. 1902 A, 415.

Case, E. C. 1917 A, 134.
1919 B, 200.

Gregory, W. K. 1917 B, 315, 319.

Moodie, R. L. 1909 B, 15.
1916 A, 166.**Ctenerpeton alveolatum** Cope.

Hay, O. P. 1902 A, 415.

Merrill, G. P. 1907 A, 9

Moodie, R. L. 1909 B, 24, pl. x.
1914 A, 17.1916 A, 166, pl. xix; pl. xxiii, fig. 2.
Pennsylvanian (Linton); Ohio.**SAURERPETON** Moodie. Type *Sauroplorea latithorax* Cope.

Moodie, R. L. 1909 E, 80.

Case, E. C. 1919 B, 200.

Moodie, R. L. 1909 B, 15.
1916 A, 162.**Saurerpeton latithorax** (Cope).

Hay, O. P. 1902 A, 419 (Saurerpeton).

Merrill, G. P. 1907 A, 77 (Saurerpeton).

Moodie, R. L. 1909 B, 23, pl. lx.

1909 E, 80, fig. 23.

1914 A, 26

1916 A, 163, pl. xvii; text-fig. 35.

1920 B, 467, fig. 4 ("fellow")

Pennsylvanian (Linton); Ohio.

LEPTOPHRACTUS Cope. Type *L. obsoletus* Cope.

Hay, O. P. 1902 A, 419.

Case, E. C. 1917 A, 134.
1919 B, 200.

Gregory, W. K. 1917 B, 319.

Moodie, R. L. 1916 A, 167.

Leptophractus dentatus Moodie.

Moodie, R. L. 1916 A, 169, fig. 36.

1914 A, 21 (Name only)

Pennsylvanian (Linton); Ohio.

Leptophractus lineolatus Cope.

Hay, O. P. 1902 A, 419

Moodie, R. L. 1914 A, 21.

1916 A, 169, pl. xxii, fig. 1

Pennsylvanian (Linton); Ohio.

Leptophractus obsoletus Cope.

Hay, O. P. 1902 A, 419

Moodie, R. L. 1914 A, 21.

1916 A, 167.

Pennsylvanian (Linton); Ohio.

SEVEN SUPPOSED MICROSAURIAN GENERA WHOSE RELATIONSHIPS ARE
UNCERTAIN**EURYTHORAX** Cope. Type *E. sublaevis* Cope.

Hay, O. P. 1902 A, 416.

Case, E. C. 1917 A, 134.
1919 B, 200.

Hussakof, L. 1916 A, 127 (= ? Sagenodus).

This genus may belong among the fishes

Eurythorax sublaevis Cope.

Hay, O. P. 1902 A, 416.

Hussakof, L. 1916 A, 127 (Sagenodus)

Moodie, R. L. 1914 A, 19.

1916 A, 170, fig. 37

Pennsylvanian (Linton); Ohio.

AROTUS Cope. Type *Ceratodus hieroglyphus* Cope.

Cope E. D. 1877 G, 554.

Moodie R. L. 1908 F, 252.

Arotus hieroglyphus (Cope).

Hay, O. P. 1902 A, 356 (Ceratodus)

Bowen, C. F. 1915 A, 118, 149, 150 (Ceratodus)

Cockerell, T. D. A. 1908 C, 162 (Ceratodus).

Cope E. D. 1877 G, 554.

Hatcher, J. B. 1905 B, 68 (Ceratodus).

Hussakof, L. 1908 A, 51 (Ceratodus)

Moodie, R. L. 1908 F, 252, fig. 3 (Ceratodus).

Referred to the Amphibia)

Osborn, H. F. 1902 I, 11 (Ceratodus).

Upper Cretaceous (Judith River); Montana.

SCAPHERPETON Cope. Type *S. tectum* Cope.

Hay, O. P. 1902 A, 424.

Abel, O. 1919 A, 330.

Ardt, T. 1916 A, 103.

Cope, E. D. 1880 U, 148.

Gilmore, C. W. 1924 A, 68.

Hatcher, J. B. 1905 B, 70.

Hay, O. P. 1910 B, 296.

Moodie, R. L. 1908 F, 255.

Peale, A. C. 1912 A, 746.

Pompeckj, J. F. 1912 A, 340.

Williston, S. W. 1900 B, 394, pl. xxiv, figs. 13,
13a.

Zittel and Brodh 1923 A, 206.

Scapherpeton excisum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.
 Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton favosum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.
 Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton laticolle Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1915 A, 120.
 Hatcher, J. B. 1905 B, 70.
 Moodie, R. L. 1908 F, 253.
 1914 A, 26.

HEMITRYPUS Cope. Type *H. jordanianus* Cope.

- Hay, O. P. 1902 A, 424.
 Arlitt, T. 1916 A, 103.
 Pompeckj, J. F. 1912 A, 340.

Hemitrypus jordanianus Cope.

- Hay, O. P. 1902 A, 424.

- Osborn, H. F. 1902 I, 11.
 Upper Cretaceous (Judith River); Montana.

Scapherpeton tectum Cope.

- Hay, O. P. 1902 A, 424.
 Bowen, C. F. 1901 A, 120, 148.
 Brown, B. 1907 A, 842.
 1914 E, 358, 378
 Gilmore, C. W. 1924 D, 27.
 Hatcher, J. B. 1903 D, 372.
 1905 B, 69, 70
 Lambe, L. M. 1902 A, 31, pl. iii, figs. 4-8; pl.
 xv, figs 16, 17?
 1904 C, 22, 36, 46.
 1912 A, 8
 Matthew, W. D. 1916 A, 485 (This species?).
 Moodie, R. L. 1908 F, 253.
 1914 A, 26
 Osborn, H. F. 1902 I, 11, 16.
 Peale, A. C. 1912 A, 754.
 Sternberg, C. M. 1924 A, 68
 Williston, S. W. 1902 K, 953.
 Upper Cretaceous (Judith River, Hell Creek);
 Montana: (Belly River); Alberta: (Lance);
 Wyoming; Saskatchewan.

AMBLYODON Dawson. Type *A. problematicum* Dawson.

- Hay, O. P. 1902 A, 416
 Moodie, R. L. 1916 A, 176, fig. 38.

Amblyodon problematicum Dawson.

- Hay O. P. 1902 A, 416 (*A. problematicus*)
 Lambe, L. M. 1904 C, 35, 45 (*A. problematicus*).
 Moodie, R. L. 1914 A, 14 (*A. problematicus*)
 1916 A, 177.
 Pennsylvanian; Nova Scotia.

BRACHYDECTES Cope. Type *B. newberryi* Cope.

- Hay, O. P. 1902 A, 413.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Moodie, R. L. 1916 A, 175.

Brachydictes newberryi Cope.

- Hay, O. P. 1902 A, 413.
 Moodie, R. L. 1914 A, 15.
 1916 A, 175.
 Pennsylvanian (Linton); Ohio.

PROTERPETON Moodie. Type *P. gurleyi* Moodie.

- Moodie, R. L. 1916 A, 176.
 This genus may belong among the fishes

Proterpeton gurleyi Moodie.

- Moodie, R. L. 1916 A, 176, pl. xxu, fig. 2.
 1914 A, 25 (No description).
 Pennsylvanian; Illinois.

Suborder GANOCEPHALA Owen.

- Owen, R. 1860 A, 155.
 Hay, O. P. 1902 A, 417 (*Apocerospondyl*, part).
 Abel, O. 1920 A, 352 (*Rhachitomi*).
 Arlitt, T. 1907 D, 652 (*Embolomer*); 684 (*Temnospondyl*).
 1916 A, 95 ("sklerokephalen," "ganokephalen," "embolomeren," "rachitomen").
 Boulenger, G. A. 1902 F, 333 (*Rhachitomi*).

- Broili, F. 1904 A, 37 (*Temnospondyl*)
 Broom, R. 1910 A, 214 (*Temnospondyl*).
 Case, E. C. 1911 B, 14, 23, 80 (*Temnospondyl*).
 1915 A, 96 (*Temnospondyl*).
 Cope, E. D. 1885 DD, 304 (*Ganoccephala*, *Rhachitomi*, *Embolomer*).
 1891 N, 28, 29 (*Ganoccephali*, *Rhachitomi*, *Embolomer*).

- Dollo, L. 1884 D, 86 (Rhachitomi, Embolomeri).
1885 D, 629 (Archegosaurus).
Furbringer, M. 1902 A, 217 (Rhachitomi, Embolomeri).
Gadow, H. 1901 B, 81 (Temnospondyli).
Gaudry, A. 1876 A, 721 (Actinodon).
1878 A, 956 ("reptiles").
Gaupp, E. 1912 A, 565 (Temnospondyli).
Geinitz and Dechmüller 1882 B, 21 (Archegosaurus).
Greene, J. R. 1861 A, 218, 226.
Gregory, W. K. 1915 D, 365 (Temnospondyli).
Haeckel, E. 1868 A, 448.
Huene, F. 1902 A, 14, 68 (Temnospondyli).
1913 B, 379 (Temnospondyli).
1913 G, 506 (Temnospondyli).
1920 C, 211 (Rhachitomi, Embolomeri).
1926 A, 262 (Temnospondyli, Embolomeri).
Jaekel, O. 1896 C, 505 (Archegosaurus).
1904 B, 115 (Temnospondyli).
1906 D, 189 (Temnospondyli).
1909 A, 194 (Temnospondyli).
Lydekker, R. 1885 F, 1-16, pls 1-1v ("labyrinthodonts").
Makowsky, A. 1876 A, 155 (Archegosaurus).
Moodie, R. L. 1908 B, 363 (Temnospondyli).
1908 G, 516, 520 (Temnospondylia).
1909 D, 243 (Temnospondylia, Embolomeri).
1909 E, 39 (Temnospondyli).
1909 F, 220 (Temnospondylia).
1910 C, 234 (Temnospondylia); 241 (Embolomeri).
1911 A, 489 (Apæcospondyli).
1911 E, 236, 240, 242 (Temnospondylia).
1911 H, 243 (Temnospondylia, Embolomeri).
1912 D, 326 (Temnospondylia, Embolomeri).
1915 F, 189, 190 (Temnospondylia).
1915 H, 638 (Temnospondylia).
Moodie, R. L. 1916 A, 5, 178 (Temnospondylia).
Owen, R. 1866 A, 14.
Quenstedt, F. A. 1861 A, 204 (Archegosaurus).
Romer, A. S. 1922 B, 523 (Embolomeri, Rhachitomi).
1925 A, 180 (Embolomeri).
1925 B, 456, 461 (Embolomeri); 460 (Rhachitomi).
Stensio, E. A. 1921 A, 140 (Temnospondyli).
Sushkin, P. P. 1927 A, 270, 310 (Rhachitomi); 316 (Embolomeri).
Terra, P. 1911 A, 225.
Thevenin, A. 1910 A, 4, 16 ("temnospondyles").
Vogt, C. 1854 A, 676 (Archegosaurus).
Watson, D. M. S. 1916 C, 632 ("temnospondyls").
1917 C, 168 (Embolomeri, Rhachitomi).
1919 A, 286, 291 ("temnospondyls"); 286, 292 (Embolomeri, Rhachitomi).
1919 B, 3, 49, 50, 62, 64 (Labyrinthodontia, Embolomeri, Rhachitomi).
1926 A, 192 (Rhachitomi, Embolomeri).
Williston, S. W. 1908 B, 400 (Temnospondyli).
1910 D, 534 (Temnospondyli, Embolomeri).
1911 B, 9 (Temnospondyli).
1916 B, 200 (Temnospondyli); 208 (Embolomeri).
1918 A, 75 (Temnospondyli).
1925 A, 1, 6, 21, 25, 27, 112, 195 (Temnospondyli).
Zittel, K. A. 1890 A, 384 (Temnospondyli).
Zittel and Broili 1911 A, 166 (Temnospondyli, Rhachitomi).
1923 A, 173, 186 (Temnospondyli), 186 (Embolomeri), 187 (Rhachitomi).
Zittel Eastman etc 1902 A, 128 (Temnospondyli).

CRICOTIDÆ Cope.

- Hav, O. P. 1902 A, 420.
Abel, O. 1919 A, 293.
Ardt, T. 1912 A, 656.
1916 A, 142 ("cricotiden").
Case, E. C. 1911 B, 14, 72, 81, 84.
1915 A, 97.
1915 D, 797.
Cope, E. D. 1891 N, 30.
Gregory, W. K. 1917 B, 313.

- Huch, F. 1913 G, 507.
1920 C, 211.
1926 A, 262, 267 (Embolomeri).
Jaekel, O. 1922 A, 25.
Moodie, R. L. 1911 E, 241.
1912 D, 326.
1916 A, 178.
Watson, D. M. S. 1917 C, 169.
Williston, S. W. 1910 D, 534.
1916 B, 218.

CRICOTUS Cope. Type *C. heteroclitus* Cope.

- Hay, O. P. 1902 A, 420.
Abel, O. 1919 A, 225, 293, fig. 174.
Ardt, T. 1916 A, 99, 103.
Beede, J. W. 1922 A, 682.
Broili, F. 1904 A, 46, 48.
1908 D, 240.
1913 A, 98.
Broom, R. 1910 A, 214.
1910 C, 476.
1913 F, 563, 564.
Case, E. C. 1900 A, 698.
1908 C, 579.
1911 B, 14, 72, 84, 145, pl. xxv, fig. 3, text-fig. 50.

- Case, E. C. 1915 A, 106, 107, 132, 158, 159, pl. xxi figs 1-7 text-figs 33-37.
1915 D, 797.
1919 B, 272.
Cope, E. D. 1878 LL, 482.
1880 U, 145.
Cummings, W. F. 1908 A, 745.
Dames, W. 1899 C, 366.
Dollo, L. 1884 D, 91.
1893 D, 9.
Furbringer, M. 1904 A, 576.
Gadow, H. 1901 B, 285.
1902 B, 359, 361.
Gaudry, A. 1888 A, 2.

- Gregory, W. K. 1917 B, 312.
 Huene, F. 1913 G, 503.
 1920 F, 460.
 Koken, E. 1898 B, 143.
 Lydekker, R. 1903 D, 75.
 1912 C, 15.
 Matthew, W. D. 1909 G, 94, fig. 5.
 Mehl, M. G. 1919 A, 52.
 Miner, R. W. 1925 A, 183, fig. 20.
 Nopce, F. 1923 H, 20.
 Osborn, H. F. 1916 E, 611, fig. 23.
 1917 B, 311.
 Oswald, F. 1909 A, 124.
 Romer, A. S. 1922 B *passim*, pls. xxxvii, xlv.
 1924 A, 126.
 1925 A, 180, 181.
 1926 A, 58.
 1928 C, 257.
 Schuchert, C. 1910 A, 570.
 Schwarz, H. 1908 A, 321.
 Thevenin, A. 1910 A, 38.
 Watson, D. M. S. 1916 C, 632.
 1916 E, 85.
 1917 C, 169.
 1919 A, 294.
 1919 B, 50.
 1926 A, 241.
 Williston, S. W. 1910 A, 271.
 1910 D, 534.
 1915 A, 578.
 1916 B, 209, figs. 50, 51.
 1918 A, 76, fig. 1.
 1925 A, 97, 98, 119, 143, fig. 76.
 Wiman, C. 1910 A, 40.
 Woodward, A. S. 1904 D, 175.
 Zittel and Brodh. 1911 A, 171.
 1923 A, 187.

***Cricotus crassidiscus* Cope.**

- Hav. O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 564, figs. 1, 3.
 Case, E. C. 1911 B, 76.
 1915 A, 97.
 Cope, E. D. 1885 DD, 305, fig. 172.
 Cope and Matthew 1915 A, pls. xvi, xvii.
 Cummins, W. F. 1908 A, 743.
 Huene, F. 1913 B, 367, fig. 51.
 Moodie, R. L. 1911 E, 241.
 1912 D, 356.
 1914 A, 16.
 Permian (Wichita), Texas.

***Cricotus gibsoni* Cope.**

- Hav. O. P. 1902 A, 421.
 Case, E. C. 1900 A, 709, pl. 1, fig. 15.
 1911 B, 75.
 1915 A, 97.
 Cope and Matthew 1915 A, pl. iii, fig. 17.
 Moodie, R. L. 1911 E, 241.
 1914 A, 16 (C. gibsoni).
 Pennsylvanian (Upper); Illinois.

***Cricotus heteroclitus* Cope.**

- Hav. O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 564 (C. discophorus).
 Case, E. C. 1900 A, 708, pl. 1, figs. 12-14.
 1911 B, 75, 145, 146, pl. xxiv, figs. 1, 2.
 pl. xxv, figs. 1, 2, 4, text-figs. 50, 51.
 1915 A, 97, 157, 159, pl. xx, fig. 1; text-fig. 32.
 Cope, E. D. 1891 N, 31, fig. 14.
 Cope and Matthew 1915 A, pl. iii, figs. 15, 16.
 Daines, W. 1899 C, 366.
 Gadow, H. 1901 B, 287.
 Moodie, R. L. 1911 E, 241.
 1912 D, 326.
 1914 A, 16.
 Williston, S. W. 1897 K, 395.
 Pennsylvanian (Upper), Illinois.

***Cricotus hypantricus* Cope.**

- Hav. O. P. 1902 A, 421.
 Beede, J. W. 1907 A, 119.
 Broom, R. 1913 F, 566, fig. 2.
 Case, E. C. 1911 B, 74, 146, text-fig. 51.
 1915 A, 97, 159.
 Cummins, W. F. 1908 A, 741.
 Gadow, H. 1896 A, 41, fig. 42.
 Moodie, R. L. 1911 E, 241.
 1914 A, 17.
 Permian (Wichita), Texas (Emd), Oklahoma (Garrison?), Kansas.

***Cricotus* sp. indet.**

- Undetermined remains have been mentioned as follows.
 Hav. O. P. 1902 A, 421.
 Case, E. C. 1900 A, 709, pl. v, figs. 13-16.
 (Permian, Illinois).
 1902 B, 63 Permian; Oklahoma.
 Moodie, R. L. 1914 A, 17 Carboniferous (Upper), Illinois.
 Romer, A. S. 1927 A, 232 Permian (Wichita); Texas.
 Wegman, C. H. 1915 A, 25 Permian (Wichita), Oklahoma.

Cricotillus Case. Type *C. brachydens* Case.

- Case, E. C. 1902 B, 63.
 Auldt, T. 1916 A, 99.
 Case, E. C. 1911 B, 14, 78.
 Huene, F. 1920 F, 461.
 Romer, A. S. 1925 A, 181.
 Schuchert, C. 1910 A, 570.
 Williston, S. W. 1910 A, 281.
 1910 D, 534.

***Cricotillus brachydens* Case.**

- Case, E. C. 1902 B, 63, 65.
 Beede, J. W. 1907 A, 139.
 Case, E. C. 1911 B, 78, text-fig. 20.
 1915 A, 97.
 Moodie, R. L. 1911 E, 240.
 1914 A, 16.
 Williston, S. W. 1910 D, 534.
 Permian (Emd), Oklahoma.

CHENOPROSOPUS Mehl. Type *C. milleri* Mehl.

- Mehl, M. G. 1913 A, 11.
 Abel, O. 1919 A, 310.
 Case, E. C. 1915 A, 106, 133.
 Huene, F. 1920 F, 461.
 Williston, S. W. 1915 A, 578
 1916 B, 209.
 1918 B, 93.
 Zittel and Brouh 1923 A, 192

Chenoprosopus milleri Mehl.

- Mehl M. G. 1913 A, 11, figs. 4-7.
 Abel, O. 1919 A, 311, fig. 231.
 Case, E. C. 1915 A, 97
 Lydekker, R. 1914 A, 650
 Williston, S. W. 1918 B, 93, fig 7 ("Chenoprosopus")
 Williston and Case 1913 A, 6
 Permian, New Mexico

SPONDYLERPETON Moodie. Type *S. spinatum* Moodie.

- Moodie R. L. 1912 D, 355.
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1916 A, 178.
 Watson, D. M. S. 1917 C, 169.
Spondylrpeton spinatum Moodie.
 Moodie R. L. 1912 D, 326, 355, pl. viii, figs. 1, 2, pl ix, fig. 1.

- Case, E. C. 1915 D, 797.
 Moodie, R. L. 1911 E, 240 (No description).
 1912 A, 278
 1912 D, 326.
 1914 A, 26
 1916 A, 179 pl. iv, figs. 1, 2 text-fig 39
 Pennsylvanian (Mazon Creek); Illinois

MACRERPETIDÆ Moodie.

- Moodie, R. L. 1909 A, 354
 Gregory, W. K. 1917 B, 313 (Macrepetidae).

- Moodie, R. L. 1915 F, 189
 1916 A, 181

MACRERPETON Moodie. Type *Tuditanus huxleyi* Cope.

- Moodie, R. L. 1909 E, 72.
 Case, E. C. 1917 A, 134.
 1919 B, 200.
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1909 A, 347.
 1916 A, 182
 Watson, D. M. S. 1919 B, 21
Macrerpeton deani Moodie.
 Moodie, R. L. 1916 A, 184, pl. xxi, figs. 1, 2;
 text-fig 40 (pl xxii, fig 4 This species?).
 1914 A, 21 (Name only).
 Pennsylvanian (Linton), Ohio

- Macrerpeton huxleyi** (Cope).
 Hay O. P. 1902 A 415 (Tuditanus)
 Moodie, R. L. 1909 A, 347, 354, pl. lix, fig. 1.
 1909 B, 28
 1909 D, 239
 1909 E, 72, fig. 17.
 1909 F, 217.
 1911 A, 490
 1911 H, 239
 1914 A, 21
 1916 A, 182, pl. xxvi, fig. 2.
 Pennsylvanian (Linton) Ohio

ANTHRACOSAURIDÆ Cope.

- Cope, E. D. 1875 X, 10
 Hay, O. P. 1902 A, 421 (Anthracosauridæ); 417
 (Dendrerpetontidae).
 Bailey, W. H. 1876 A, 62 (Anthracosaurus)
 Gregory, W. K. 1917 B, 313
 Hancock and Atthey 1869 C, 184 (Anthracosaurus)
 1869 D, 270 (Anthracosaurus)

- Lydekker R. 1890 A 157.
 Moodie, R. L. 1916 A, 48 185
 Watson D. M. S. 1917 C, 167
 Wright and Huxley 1866 A, 169 (Anthracosaurus).
 Zittel Eastman, etc. 1902 A 131 (Gastrolepidotidae)
 Zittel and Brouh 1911 A, 171 (Anthracosaurus)

EOSAURUS Marsh. Type *E. acadianus* Marsh.

- Hay O. P. 1902 A, 421.
 Arldt, T. 1916 A, 99.
 Brauns, D. 1890 A, 202.
 Gregory, W. K. 1917 B, 320.
 Moodie, R. L. 1913 B, 32.
 1915 F, 189.
 Watson, D. M. S. 1919 B, 21.
 Williston, S. W. 1909 A, 394.
 1910 F, 599.
 1925 A, 94.
 Zittel and Brouh 1911 A, 171.
 1923 A, 187.
 Zittel, Eastman, etc. 1902 A, 132.

Eosaurus acadianus Marsh.

- Hay, O. P. 1902 A 421.
 Agassiz, L. 1862 A, 138 ("sauroid remains")
 Bell, W. A. 1913 A, 341, 343.
 Lambe, L. M. 1904 C, 14, 20 35, 46
 Lucas, F. A. 1902 B, 117, figure
 Mackie S. J. 1863 F, 440.
 Moodie, R. L. 1908 B, 362 (E. canadensis).
 1909 F, 217.
 1910 B, 721 (E. canadensis)
 1911 A, 489, 495 (E. canadensis)
 1911 H, 239
 1914 A, 18
 1916 A, 187, fig. 41
 Pennsylvanian (Joggins), Nova Scotia

EOBAPHETES Moodie. Type *Erpetosuchus kansensis* Moodie.

- Moodie, R. L. 1916 A, 189
 Gregory, W. K. 1917 B, 312.
 Moodie, R. L. 1915 F, 189
 Watson, D. M. S. 1912 A, 8 (*Erpetosuchus*)
 1917 C, 168 (*Erpetosuchus*)
 1919 B, 21 (*Erpetosuchus*)

Eobaphetes kansensis Moodie.

- Moodie, R. L. 1911 A, 491, figs 1-4 (*Erpetosuchus*)
 Gaupp, E. 1912 A, 566 (*Erpetosuchus*)
 Moodie, R. L. 1914 A, 18 [*E (Erpetosuchus)*]
 1916 A, 190, fig. 42.
 Watson, D. M. S. 1912 A, 8 (*Erpetosuchus*).
 Pennsylvanian, Kansas

BAPHETES Owen. Type *B. planiceps* Owen.

- Hay, O. P. 1902 A, 418.
 Arldt, T. 1916 A, 99 (*Taphetes*).
 Moodie, R. L. 1915 F, 189.
 1916 A, 186.
 Owen, R. 1860 E, 184.
 Watson, D. M. S. 1912 A, 8
 1917 C, 168.
 1919 B, 21.
 1926 A, 198, fig. 4
 Zittel and Brodh. 1911 A, 171.
 1923 A, 187.

Baphetes minor Dawson.

- Hay, O. P. 1902 A, 418.
 Dawson, J. W. 1870 B, 271.

- Lambe, L. M. 1904 C, 20, 35, 45
 Moodie, R. L. 1914 A, 15.
 1916 A, 187
 Pennsylvanian (Joggins), Nova Scotia

Baphetes planiceps Owen.

- Hay, O. P. 1902 A, 418.
 Lambe, L. M. 1904 C, 20, 35, 45
 Mackie, S. J. 1863 F, 436
 Moodie, R. L. 1908 E, 563 (*Raphetes*; err. typ.).
 1911 A, 489, 495
 1914 A, 15
 1916 A 186 pl. xii, fig. 6
 Owen, R. 1860 E, 184
 Pennsylvanian (Joggins), Nova Scotia

DENDRERPETON Owen. Type *D. acadianum* Owen.

- Hay, O. P. 1902 A, 417.
 Arldt, T. 1912 A, 650.
 Brauns, D. 1890 A, 161.
 Brodh., F. 1904 A, 37.
 1908 F, 60.
 Dawson, J. W. 1888 A, 393.
 Deperet, C. 1907 B.
 1912 A, 704
 Gregory, W. K. 1917 B, 312.
 Heilmann, A. 1887 A, 310.
 Huxley, T. H. 1863 C, 571.
 Moodie, R. L. 1912 D, 327.
 1916 A, 192
 Owen, R. 1876 E, 45.
 Wills, L. J. 1916 A, 17.
 Zittel and Brodh. 1923 A, 200.

Dendrerpeton acadianum Owen.

- Hay, O. P. 1902 A, 418.

- Bell, W. A. 1913 A, 343
 Brodh., F. 1908 F, 60
 Dawson, J. W. 1854 A, 22
 Jaeger, G. 1856 A, 959
 Lambe, L. M. 1904 C, 20, 35, 45
 Lull, R. S. 1918 B, 202
 Mackie, S. J. 1863 F, 436, 437
 Moodie, R. L. 1916 A, 192 pl. vi
 Pennsylvanian (Joggins), Nova Scotia

Dendrerpeton oweni Dawson.

- Hay, O. P. 1902 A, 418
 Bell, W. H. 1913 A, 343
 Lambe, L. M. 1904 C, 20, 35, 45.
 Mackie, S. J. 1863 F, 438
 Moodie, R. L. 1914 A, 17 (*D. oweni*)
 1916 A, 194, pl. xiii
 1920 B, 466, fig. 3 ("4-footed animal")
 Pennsylvanian (Joggins), Nova Scotia

PLATYSTEGOS Dawson. Type *P. loricatum* Dawson.

- Hay, O. P. 1902 A, 418.
 Moodie, R. L. 1916 A, 197.
 A genus of somewhat uncertain position.

Platystegos loricatum Dawson.

- Hay, O. P. 1902 A, 418
 Lambe, L. M. 1904 C, 20, 35, 45
 Moodie, R. L. 1914 A, 24
 1916 A, 197.
 Pennsylvanian (Joggins), Nova Scotia

ERYOPIDÆ Cope.

- Hay, O. P. 1902 A, 421.
 Abel, O. 1919 A, 277.
 Arldt, T. 1907 D, 678 (*Rhachitomi*).
 1909 B, 353 ("eryopiden").
 1912 A, 656 (*Eryopidae*, *Rhachitomi*).
 1916 A, 142 ("eryopiden")
 Brodh., F. 1904 D, 532 ("rhachitomen").
 1913 A, 98.

- Case, E. C. 1911 B, 14, 23, 80, 81.
 1915 A, 96
 Cope, E. D. 1891 N, 29
 Dollo, L. 1884 D, 88
 Huene, F. 1913 G, 506
 1920 C, 211 (*Eryopinae*)
 Jaekel, O. 1909 A, 204
 1922 A, 23

- Lydekker, R 1885 F, 9, 10 (Actinodontidae); 9 (Rhachitomi)
 Moodie, R L 1909 D, 243 (Rhachitomi)
 1910 C, 240, 242 (Eryopidae), 240 (Rhachitomi)
 1916 A, 180.
 Watson D M S 1919 B, 2, 64 (Rhachitomi, Eryopidae).

ERYOPS Case. Type *E. megacephalus* Cope.

- Hay, O P. 1902 A, 421.
 Abel, O 1912 F, 671.
 1919 A, 223, 256, figs 172, 188, 194, 206
 1921 A, 250.
 Adams, L A 1919 A, 128, pl. xn.
 Amalitsky V P 1921 B, 9
 1924 A, 58
 1924 B, 72
 Anonymous 1912 A, 519.
 Arldt, T 1916 A, 102.
 Beasley W. L. 1907 A, 368.
 Boas, J E V 1914 C, 239, fig. 5.
 Boule, M 1891 A, 8
 Boulenger, G A 1901 B, 401.
 Branson E B 1905 B, 566 595 610, figs 5, 11-14, 16, 18, 19
 Branson and Mehl 1928 C, 488.
 Broth F 1904 A, 28, 49, 62.
 1904 B, 484.
 1904 D 579.
 1908 D, 236
 1913 C, 529.
 1913 D, 351.
 1917 A, 572
 1926 A, 209, figs 5, 9.
 Broom R 1901 A, 185.
 1903 E, 136
 1904 B, 90.
 1906 A, 1058.
 1906 D 373.
 1910 C, 476.
 1911 B, 79
 1913 E, 531.
 1913 F, 563, 579.
 1913 H, 73
 1913 I 355.
 1915 C, 30
 1917 A 977
 1926 A, 263
 Bulman and Whittard 1926 A, 577.
 Case E C 1902 A, 48.
 1903 C, 394, fig. 1.
 1908 B, 235, pl. lxx, figs 5-8; text-figs 1-3.
 1908 C 576 579.
 1908 D, 567
 1911 B 14, 23, 81, 91, 93, pl. v, figs 3, 4.
 pl. viii fig 2, pl. xv, fig 10, text-fig 26.
 1915 A, 126, 165, pl. xxiii, figs. 1-4.
 1924 B, 6
 Cope E D 1880 U, 145 (Rhachitomi).
 Credner H 1893 A, 673, 688.
 Cummins, W F 1908 A, 745.
 Dollo, L. 1893 D, 9.
 Douthett, H. 1917 A, 237.
 Dröevermann, F. 1914 B, 628.
 1920 A, 89, 100, 104.
 Eastman, C. R. 1917 B, 656.
 Williston, S. W. 1910 D, 535 (Eryopidae, Rhachitomi)
 1911 B, 9
 1916 B, 200 (Eryopidae, Rhachitomi)
 1916 A, 75 (Rhachitomi).
 Zittel and Broth 1911 A, 168 (Rhachitomi).
 1923 A, 187.
- Eastman, Gregory, and Matthew 1917 A, 118.
 Emery, C. 1901 A, 672, fig 12
 Frassetto F 1915 A, 52.
 Fuchs H 1912 B 89
 Furlbringer, M 1904 A, 576
 Gadow H 1896 A, 21, 22, 51 (Syn. of Rhachitomi)
 1901 B 285
 1902 B 359, 361.
 Gaudry A 1888 A, 2.
 1896 A 59
 Gaupp, E 1912 A, 565
 Gregory W K 1910 A, 439, 440
 1911 A, 508
 1913 D, 807
 1915 D, 336, fig. 11.
 1917 B, 312
 1920 A 223
 Gregory and Camp 1918 A, 547
 Gregory, Mimer and Noble 1923 A, 279
 Gregory and Noble 1924 A, 439 fig 1
 Hanson F B 1920 B, 333, 337
 Heilprin A 1887 A, 155
 Hitchcock and Graff 1927 A, 192
 Hooper E C N 1915 A, 140, 142
 Hunt F 1902 A 6
 1909 D, 332
 1912 D, 98 figs 2-8.
 1913 B, 379
 1913 G 502
 1922 D, 280
 1922 G 404 444 453
 Jaekel, O 1903 A, 118
 1906 B, 467
 1919 A, 91
 1922 A 24
 Kuhn, F A 1896 A, 353
 Kingsley J S 1925 A, 120, 122 246, figs. 126, 128 259
 Koken, E 1898 B, 143
 Lakier, T 1927 A, figs 82 115
 Lucas F A 1902 B, 118, figure
 Lydekker, R 1885 F, 10 (Eryops), 10, 11 (Rhachitomi)
 1903 D, 75
 1912 C, 15
 Martin, H T. 1922 B, 104.
 Matthew, W D 1909 G, 92, fig 2
 1911 D, 197 figs
 Mehl M G. 1919 A, 52.
 Mimer, R W 1925 A, *passim*, 23 figs
 Moodie, R L 1910 C, 243.
 1911 H, 239.
 1915 G, 370.
 1915 J, 318.
 1916 A, 180.
 Morton, D J. 1926 A, 413.

- Neumayer, L. 1904 A, 121
 Nopeva, F. 1923 E, 1047.
 1926 A, 635.
 Osborn, H. F. 1916 E, 612, figs. 22, 23.
 1917 B, 312.
 Perrier, E. 1920 A, 281
 Raymond, P. E. 1907 A, 836.
 Rogers, A. F. 1924 A, 546.
 Romer, A. S. 1922 B, 525-564 pls. xxxiii, xxxvii, xlv, xlvii.
 1924 A, 122, 124, figs. 1-3.
 1925 B, 450.
 1926 A, 59.
 1928 C, 257, 258.
 Schmalhausen, J. J. 1908 A, 342.
 1917 A, 96, 107, fig. L.
 1917 B, 135.
 Schuchert, C. 1910 A, 570.
 1915 A, 802.
 Schwarz, H. 1908 A, 320.
 Sewertzoff, A. N. 1908 A, 387.
 Steiner, H. 1921 A, 534, 535.
 1922 A, 331, 340.
 Steinmann, G. 1907 A, 426, fig. 750.
 1908 A, 214.
 Stensio, E. A. 1921 A, 141
 Sternberg, C. H. 1909 C, 217, 227.
 1917 A, 184.
 Stromer, E. 1913 A, 61.
 Sushkin, P. P. 1927 A, 274, 280, 314, figs. 5, 6, 13, 14.
 Thevcnn, A. 1910 A, 38, fig. 15.
 Versluys, J. 1912 B, 568, fig. a.
 Villiers, C. G. S. 1922 A, 218.
 Watson, D. M. S. 1912 A, 9.
 1912 B, 584.
 1913 C, 341.
 1913 F, 956, 957.
 1914 F, 780.
 1914 G, 1004.
 1914 H, 1014.
 1916 B, 45.
 1916 C, 612, 630, figs. 1-4.
 1916 E, 83.
 1917 A, 979.
 1917 B, 2.
 1919 A, 286.
 1919 B, 3, 23, 49, 51, 64, figs. 1, 11, 29, 30.
 1921 C, 72, 73.
 1926 A, 202.
 Whittard, W. F. 1928 A, 263.
 Williston, S. W. 1909 B, 641.
 1910 D, 535.
 1910 F, 596.
 1911 D, 379.
 1914 A, 31, figs. 14, 24.
 1914 C, 57, 62, fig. 1.
 1914 E, 121.
 1915 A, 578.
 1915 B, 253.
 1916 A, 173.
 1916 B, 201, figs. 38-40.
 1918 A, 76, figs. 1, 2.
 1918 B, 87, pl. iii, text-figs. 14, 16.
 1925 A, 24, 97, 126, 136, 168, 170, 195, figs. 10, 25, 76, 108, 136.
 Wills, L. J. 1916 A, 5, fig. 1.
 Wiman, C. 1921 A, 27.
 1922 A, 118.
 1923 B, 274.
 Zittel and Brodh. 1911 A, 168.
 1923 A, 172, 187, fig. 267.
 Zittel, Eastman, etc. 1902 A, 131.
- Eryops erythroliticus Cope.**
 Hay, O. P. 1902 A, 422.
 Beede, J. W. 1907 A, 118.
 Cummins, W. F. 1908 A, 744.
 Moodie, R. L. 1911 E, 252 (=E. megocephalus?).
 1916 A, 181.
 A doubtful species.
 Permian, Texas.
- Eryops latus Case.**
 Case, E. C. 1903 C, 394, fig. 2.
 Ameghino, F. 1909 A, 42, fig. 26.
 Case, E. C. 1911 B, 31.
 1915 A, 96.
 Moodie, R. L. 1911 E, 252.
 1914 A, 18.
 Stappenbeck, R. 1905 A, 405.
 Williston, S. W. 1909 B, 657, fig. 7.
 1910 D, 535.
 Permian (Wichita, Clear Fork), Texas.
- Eryops megacephalus Cope.**
 Hay, O. P. 1902 A, 422.
 Abel, O. 1919 A, 235, figs. 185, 187, 190, 205.
 1920 A, 350.
 Beede, J. W. 1907 A, 119, 139 (E. megacephalus, Rhachitanus valens).
 Boas, J. E. V. 1914 C, 241, fig. 8.
 Brodh, F. 1904 D, 581, figs. 3, 8, 9.
 1908 D, 235, fig.
 1908 F, 51.
 1917 A, 572, figs. 16, 17.
 1927 A, 187 (E. macrocephalus).
 Broom, R. 1913 F, 579, figs. 11-16, 18.
 Case, E. C. 1902 B, 63, 65.
 1903 C, 394.
 1911 B, 28, 29, 92, 109, pl. iv, fig. 2; pls. vi, vii, pl. viii, figs. 1, 3, 4; pls. ix, x, text-figs. 24, 25, 27-33, 40.
 1912 B, 681.
 1915 A, 96, 126, 157, 165; pl. xx, fig. 2, text-fig. 38.
 Cope, E. D. 1885 DD, 307, figs. 170, 171.
 1885 EE, 613, fig. 3.
 1885 FF, 794, fig. 5.
 Cope and Matthew. 1915 A, pls. x-xiii.
 Cossmann, M. 1900 A, 51.
 Cummins, W. F. 1908 A, 742.
 Gadow, H. 1896 A, 41, fig. 41.
 1901 B, 286.
 Gaudry, A. 1893 A, 21.
 Gould, C. W. 1901 A, 339.
 Gregory, W. K. 1911 A, 508.
 1915 D, 368, fig. 15.
 1920 A, 116, fig. 20.
 1922 A, 11, fig. 6.
 Gregory, Minor, and Noble. 1923 A, 280, figs. 1, 3.
 Heilmann, G. 1926 A, 46, fig. 32.
 Huene, F. 1902 A, 8, figs. 3, 15.

- Huene, F. 1912 D, 98, fig. 1.
 1913 B, 318, figs. 1-6.
 1922 G, 456, fig. 44
- Hutchinson, H. N. 1910 A, 99, fig. 20 (E macrocephalus)
- Jaekel, O. 1922 A, 12 (E megaloccephalus).
- Koken, E. 1900 C, 144.
- Lakjer, T. 1927 A, 192, fig. 70
- Miner, R. W. 1925 A, 150, 155, figs. 1, 4, 102.
- Moodie, R. L. 1908 G, 524, fig. 11
 1911 E, 240.
 1914 A, 19.
- Schuchert, C. 1910 A, 570.
- Schwarz, H. 1908 A, 320
- Sternberg, C. H. 1903 E, 94.
 1909 C, 251.
- Thevenin, A. 1910 A, 27.
- Watson, D. M. S. 1926 A, 196, fig. 1.
- Wegeman, C. H. 1915 A, 26
- Wegner, R. N. 1922 A, 462.
- Wiman, C. 1914 A, 2, figs. 7, 8 (E megaloccephalus)
 1916 B, 219.
- Zittel and Broili 1911 A, 108, fig. 299.
 1923 A, 178, figs. 275, 286, 290, 291.
- Zittel, Eastman, etc. 1902 A, 130, fig. 219.
 Permian (Clear Fork, Wichita); Texas:
 (End), Oklahoma Pennsylvanian? (Upper),
 Pennsylvania).
- Eryops reticulatus Cope.**
- Hay, O. P. 1902 A, 422.
- Case, E. C. 1911 B, 30, 109, text-fig. 40.

ERYOPSOIDES Douthitt. Type *Ophiacodon grandis* Marsh.

Douthitt, H. 1917 A, 237, 241.

This is a genus of doubtful standing.

Eryopsoides grandis (Marsh).

- Hay, O. P. 1902 A, 434 (Ophiacodon).
- Case, E. C. 1915 A, 96 (Eryops).
- Douthitt, H. 1917 A, 239, 241 (Ophiacodon; type
 of Eryopsoides).

PARIOXYS Cope. Type *P. ferriculus* Cope.

- Cope, E. D. 1878 B, 521.
- Hay, O. P. 1902 A, 421 (Eryops, in part).
- Case, E. C. 1911 B, 14, 31, 81 (Eryops).
 1915 A, 127 (Parioxys).
- Cope, E. D. 1878 U
- Watson, D. M. S. 1919 B, 4, 64.
- Williston, S. W. 1916 B, 201.

Parioxys anatinus (Broom).

- Broom, R. 1913 F, 591, figs. 19, 20 (Eryops).
- Abel, O. 1919 A, 276, fig. 204 (Eryops).
- Case, E. C. 1911 B, 96, pl. viii, fig. 2; text-
 fig. 26 (Eryops sp.).

ANISODEXIS Cope. Type *A. imbricarius* Cope.

- Hay, O. P. 1902 A, 423.
- Broili, F. 1904 A, 35, 47, 49
- Case, E. C. 1911 B, 14, 33, 81.
 1915 A, 127.
- Cummins, W. F. 1908 A, 745.

- Case, E. C. 1915 A, 96.
- Cummins, W. F. 1908 A, 744.
- Douthitt, H. 1917 A, 239, 241 (= ? Eryopsoides
 grandis?)
- Moodie, R. L. 1911 E, 240
 1914 A, 19.
- Williston and Case 1913 A, 6
 Permian, New Mexico.

Eryops willistoni Moodie.

- Moodie, R. L. 1911 E, 243, pls. xli-liv.
- Case, E. C. 1915 A, 96.
- Moodie, R. L. 1911 E, 243
 1913 A, 248
 1914 A, 19
- Williston, S. W. 1912 C, 3
- Williston and Case 1912 A, 3
 Permian (End); Oklahoma

Eryops sp. indet.

Undetermined remains of *Eryops* have been
 reported as follows:

- Case, E. C. 1916 B, 709 Permo-Carboniferous,
 New Mexico
- Cummins, C. F. 1908 A, 740 Permian; Texas.
- Moodie, R. L. 1916 A, 181, pl. xviii, fig. 2.
 Pittsburgh Red Shale; Pennsylvania
- Romer, A. S. 1927 A, 232 Permian; Texas.
- Watson, D. M. S. 1919 B, 3, fig. 1. Permian;
 Texas.
- Wegeman, C. H. 1915 A, 25 Permian (Wichita),
 Oklahoma

- Mehl, M. G. 1912 C, 409 (Ophiacodon).
- Moodie, R. L. 1914 A, 18 (Eryops)
- Williston, S. W. 1911 B, 10 (Eryops)
 1911 D, 379 (Ophiacodon)
- Williston and Case 1913 A, 6 (Eryops).
 1913 B, 37 (Eryops)
 Permian (Garrison?); New Mexico

- Watson, D. M. S. 1919 B, 4 (To Parioxys?).
 Permian, Texas

Parioxys ferriculus Cope.

- Hay, O. P. 1902 A, 422 (Eryops)
- Beede, J. W. 1907 A, 119 (Eryops)
- Case, E. C. 1911 B, 32, 104, text-fig. 4.
 1915 A, 96 (P. ferriculus)
- Cummins, W. F. 1908 A, 744 (Eryops).
- Moodie, R. L. 1911 E, 240 (Eryops)
 1914 A, 24
 Permian (Clear Fork), Texas

- Lydekker, R. 1885 F, 10.
- Schuchert, C. 1910 A, 570.
- Williston, S. W. 1910 A, 271.
 1916 B, 201

Anisodexis imbricarius Cope.

- Hay, O P 1902 A, 423.
 Beede, J. W 1907 A, 119.
 Case, E C 1911 B, 33, 104.

- Case, E C. 1915 A, 96.
 Cummins, W F. 1908 A, 743.
 Moodie, R L 1911 E, 240
 1914 A, 14
 Permian (Clear Fork), Texas

ACHELOMIDÆ Watson.

- Watson, D M S. 1919 B, 65.

ACHELOMA Cope. Type *A. cumminsi* Cope.

- Hay, O. P. 1902 A, 423.
 Broili, F 1904 A, 35, 47, 49.
 1905 A, 16, 47.
 1913 A, 98.
 Case, E C 1911 B, 14, 34, 82, 104, 136.
 1915 A, 127.
 Cummins, W. F. 1908 A, 745.
 Lvdlekker, R 1885 F, 10, 11.
 Romer, A S 1922 B, 555, fig 5.
 Schuchert, C 1910 A, 570.
 Watson D M. S 1919 B, 7, 65
 Williston, S W 1909 B, 658.
 1909 D, 129.
 1910 A, 271.
 1910 D, 533.
 1916 B, 202.
 Zittel and Broili 1923 A, 189.
 By Williston this genus is referred with
 doubt to the Trematopsidæ.

Acheloma casei Broili.

- Broili, F 1913 A, 98, pl. ix, figs 1, 2 (Ache-
 loma?).
 Case, E C 1915 A 96.
 Permian (Clear Fork); Texas.

Acheloma cumminsi Cope.

- Hay, O P 1902 A 423
 Beede J W 1907 A, 119.
 Broili, F. 1913 A, 98.
 Case, E C 1911 B, 35, 104, pl. xi, text-figs
 34, 35
 1915 A, 96.
 Cummins, W. F 1908 A, 743
 Huene, F 1913 B 370, fig 55
 Mehl M G 1912 C, 409
 Moodie, R L 1911 E, 240.
 1914 A, 14.
 Permian (Clear Fork), Texas

TREMATOPSIDÆ Williston.

- Williston, S. W. 1910 A, 278.
 Abel, O. 1919 A, 278.
 Arldt, T. 1916 A, 142 ("trematophiden").
 Broili F 1913 A, 98.
 Case, E C 1911 B, 66, 81, 83, 130; 14
 (Trematosauridae).
 1915 A, 97.
 Eastman, C R 1912 C, 657.
 Huene, F. 1913 G, 507.

- Huene, F. 1920 C, 211.
 Jaekel O 1922 A 23
 Mehl, M G 1926 A, 206.
 Nopsca, F 1923 H 136 ("trematopsiden").
 Watson, D. M. S 1919 B, 65
 Williston, S W. 1910 D, 535
 1914 C, 60
 1916 B, 201.
 Zittel and Broili 1923 A, 191.

TREMATOPS Williston. Type *T. milleri* Williston.

- Williston, S W. 1909 B, 636.
 Abel O 1912 F, 138.
 1919 A, 256.
 1921 A, 251.
 Amalitsky, V. P. 1924 B, 74.
 Anonymous 1912 A, 519.
 Broili, F 1915 A, 574.
 Broom, R. 1910 A, 214, 220.
 1921 A, 145.
 Case, E. C. 1911 B, 67, 83, 130; 14 (Tremato-
 saurus).
 1912 A, 203.
 1915 A, 131.
 Douthett, H. 1917 A, 238.
 Geol. Magazine, 1912 A, 519.
 Gregory, Miner and Noble 1923 A, 285.
 Heilmann, G 1926 A, 159, fig. 113.
 Huene, F. 1913 B, 379.
 1913 G, 502.
 1922 G, 458.
 Jaekel, O. 1922 A, 22, 23.
 Lakjer T 1927 A, 192, 196, fig. 73.
 Mehl, M. G. 1926 A, 466.

- Moodie R L. 1911 C, 377.
 1912 D, 338
 1915 J, 318.
 Nopsca F. 1923 E, 1049, fig 8.
 1926 A, 635.
 Osborn, H F 1916 E, 614
 Romer, A. S. 1928 C, 257.
 Schmalhausen, J. 1917 A, 107
 Steiner, H 1922 A, 331, 340.
 Thorpe, M. R. 1926 A, 77.
 Watson, D M. S 1913 C, 346
 1913 D, 24.
 1914 M, 348
 1917 B, 2
 1919 A, 256
 1919 B 7, 53, 65
 Williston, S W 1910 A 270, 278
 1910 D, 533, 535.
 1910 F, 597
 1914 C, 62.
 1914 E, 121.
 1915 A, 249
 1916 B, 202, figs 41, 42.

Williston, S. W. 1925 A, 169, 184, 185, 195, fig. 151

Wiman, C. 1917 A, 235

Zittel and Broili 1911 A, 169.

Trematops milleri Willist.

Williston S. W. 1909 B, 637, figs. 1-6.

Abel, O. 1912 F, 219, 385, 386.

1919 A, 258, figs. 197, 207, 208

1920 A, 349, fig. 552

Broom, R. 1921 A, 144, fig. 1.

Case, E. C. 1911 B, 67, 130, pls. xiv-xvi; text-figs. 46.

1915 A, 31, 97, 131; text-fig. 19

Galbreath, C. W. 1926 A, 22, 36, text-fig. 15.

Gordon, C. H. 1913 A, 25

Huene, F. 1909 D, 332

1913 G, 503, fig. 4

Mehl, M. G. 1926 A, 470

Moode, R. L. 1911 E, 239, 240.

1914 A, 27

Osborn, H. F. 1918 D, 686

Schmalhausen, J. 1917 B, 135, fig. 5

Stemmer, H. 1921 A, 536.

Williston, S. W. 1910 A, 278

1910 D, 535

1911 B, 142, figs. 3, 4

1914 C, 61, fig. 3

Williston and Case 1913 B, 56, text-fig. 35

Zittel and Broili 1911 A, 169, fig. 300.

1923 A, 183, figs. 287, 293

Permian (Clear Fork) Texas.

Trematops thomasi Mehl.

Mehl, M. G. 1926 A, 466, figs. 1-4

Permian (Clear Fork); Oklahoma.

ARCHEGOSAURIDÆ Fritsch.

Fritsch, A. 1885, Fauna der Gaskohle, etc., n, 13

Hay, O. P. 1902 A, 419

Abel, O. 1919 A, 272

Broili, F. 1927 D, 375, 378, pl. vii, text-figs. 3, 4

Gadow, H. 1896 A, 17 (Archegosauri)

ARCHEGOSAURUS Goldfuss.

Goldfuss, G. A. 1847 B, 400

Hay, O. P. 1902 A, 419.

Abel, O. 1919 A, 898, figs. 171, 196.

Broili, F. 1908 D, 239

1927 D, 378, pl. vii; text-figs. 3, 4.

Jaekel, O. 1911 A, 112, fig. 125

Lydekker, R. 1890 A, 177, fig. 43

Nicholson and Lydekker 1889 A, 1029, fig. 958.

Owen, R. 1866 A, 158

Schwarz, H. 1908 A, 320

Whitford, W. F. 1928 A, 255, pl. iii, 3 text-figs.

Woodward, A. S. 1893 B, 133, figs. 84, 86, 87.

Type *A. decheni* Goldfuss.

Zittel, K. A. 1890 (1888) A, 351, 384, figs. 323,

329, 332, 373, 377

Zittel and Broili 1911 A, 166, figs. 296, 297.

1923 A, 192, fig. 298a

Archegosaurus sp. indet.

Cooper, J. G. 1875 B, 402. Undetermined deposit, Mare Island, California

Cooper stated that a tooth had been found by himself and that the identification had been made by Professor Louis Agassiz

TRIMERORHACHIDÆ Cope.

Hay, O. P. 1902 A, 419 (Archegosauridæ, n part)

Abel, O. 1919 A, 275

1920 A, 350 ("trimerorhachiden").

Amalitsky, V. P. 1924 A, 62

Ardit, T. 1907 D, 678 (Rhachitomi)

1912 A, 656 (Trimerorhachidæ, Rhachitomi).

1916 A, 95, 142 ("trimerorhachiden").

Boulenger, G. A. 1902 F, 383.

Broili, F. 1904 D, 582 ("rhachitomen")

1913 A, 98.

Case, E. C. 1911 B, 14, 23, 38, 80.

1915 A, 97.

Cope, E. D. 1891 N, 29.

Dollo, L. 1884 D, 88.

Huene, F. 1913 G, 506.

Jaekel, O. 1922 A, 23

Lydekker, R. 1885 F, 9 (Trimerorhachidæ, Rhachitomi)

Moode, R. L. 1909 D, 243 (Rhachitomi).

1910 C, 240 (Rhachitomi).

1911 E, 240

Sussex, P. P. 1925 A, 180 (Rhachitomi)

Watson, D. M. S. 1917 B, 2 (Rhachitomi).

1919 B, 66

Williston, S. W. 1910 D, 535 (Trimerorhachidæ, Rhachitomi).

1916 B, 200 (Rhachitomi), 206 (Trimerorhachidæ)

1918 A, 75 (Rhachitomi)

Zittel and Broili 1923 A, 192.

TRIMERORHACHIS Cope.

Hay, O. P. 1902 A, 420.

Abel, O. 1919 A, 274.

Amalitsky, V. P. 1921 A, 8.

1924 A, 51.

Anonymous 1912 A, 519.

Ardit, T. 1916 A, 98.

Broili, F. 1904 A, 30, 48, pl. iii, figs. 3-7; pl. iv, figs. 1-3.

Type *T. insignis* Cope.

Broili, F. 1908 F, 50.

1914 A, 164

1926 A, 206, 213.

Brom, R. 1910 C, 476

1913 F, 563, 569

1913 H, 73

1915 B, 368.

1917 A, 977.

- Bryant, W. L. 1919 A, 11.
 Case, E. C. 1908 C, 576, 579.
 1911 B, 14, 39, 82, 106, pl. xu, fig. 2,
 text-figs. 40-42.
 1915 A, 127, text-fig. 14.
 Cummins, W. F. 1908 A, 745.
 Dollo, L. 1893 D, 10.
 Drevermann, F. 1920 A, 91, 105.
 Eastman, C. R. 1916 A, 655.
 Gadow, H. 1901 B, 82.
 Gaudry, A. 1888 A, 2.
 Geol. Mag. 1912 A, 519.
 Gould, C. W. 1901 A, 339.
 Gregory, W. K. 1915 D, 336, fig. 3.
 1916 D, 105 (Trimerorhachis).
 1917 C, 975.
 1920 A, 222.
 Hochen, E. C. N. 1915 A, 136.
 Huene, F. 1913 B, 372.
 1922 G, 448, 453.
 Kingsley, J. S. 1925 A, 123, fig. 130.
 Lakjer, T. 1927 A, 195.
 Lydekker, R. 1885 F, 11.
 Moodie, R. L. 1915 G, 371.
 1915 J, 318.
 Osborn, H. F. 1916 E, 614.
 1917 B, 182.
 1918 D, 687.
 Romer, A. S. 1928 C, 257.
 Schuchert, C. 1910 A, 570.
 Schwartz, H. 1908 A, 320.
 Sewertzoff, A. N. 1926 D, 81.
 Stensio, E. A. 1921 A, 142.
 Sushkin, P. P. 1927 A, 280, 284, 310.
 Watson, D. M. S. 1912 B, 586.
 1914 F, 780.
 1916 C, 631.
 1916 E, 84 (Trimerorhachis).
 1919 A, 286.
 1919 B, 7, 50, 59.
 Whittard, W. F. 1928 A, 263.
 Williston, S. W. 1910 A, 272, pl. xv, fig. 6.
 1910 D, 533, 535.
 1910 F, 586.
 1913 B, 625.
 1914 A, 26, fig. 9.
 1914 D, 415, 418.
 1915 A, 578.
 1915 B, 246, figs. 3, 5, 6.
 1916 B, 207, figs. 46, 47.
 1916 C, 291, figs. 1-3.
 1917 A, 309.
 1918 A, 76, fig. 1.
 1925 A, 94, 98.
 Wills, L. J. 1916 A, 8, 17.
 Zittel and Brodh. 1911 A, 169.
 1923 A, 181, 192, fig. 276.

Trimerorhachis alleni Case.

- Case, E. C. 1910 A, 181.
 Abel, O. 1919 A, 275, fig. 203.
 1920 A, 351, fig. 555.
 Case, E. C. 1911 B, 47, text-fig. 7.
 1915 A, 97.
 Moodie, R. L. 1911 C, 379.
 1914 A, 27.

- Williston, S. W. 1913 B, 626, fig. 1 (This species?)
 1914 D, 416, fig. 17.
 1925 A, 28, fig. 14.
 Penman (Clear Fork), Texas.

Trimerorhachis bilobatus Cope.

- Hav., O. P. 1902 A, 420.
 Beede, J. W. 1907 A, 119.
 Brodh., F. 1904 A, 30.
 Case, E. C. 1911 B, 43, text-fig. 5.
 1915 A, 97.
 Cummins, W. F. 1908 A, 741.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Penman (Wichita), Texas.

Trimerorhachis conangulus Cope.

- Hav., O. P. 1902 A, 420.
 Beede, J. W. 1907 A, 120.
 Brodh., F. 1904 A, 30 (T. conangulus).
 1908 F, 50 (T. conangulus).
 Broom, R. 1913 F, 578.
 Case, E. C. 1911 B, 44, 112, pl. v, fig. 6, text-fig. 6.
 1915 A, 97.
 Cummins, W. F. 1908 A, 744.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Penman (Clear Fork), Texas.

Trimerorhachis insignis Cope.

- Hav., O. P. 1902 A, 420.
 Abel, O. 1919 A, 274, fig. 202.
 1920 A, 348, fig. 551.
 1922 C, 568, fig. 470.
 Beede, J. W. 1907 A, 119.
 Brodh., F. 1904 A, 31.
 1908 F, 50.
 Broom, R. 1913 F, 569, figs. 4-9.
 1913 H, 74, fig. 1.
 Case, E. C. 1902 B, 64 (This species?)
 1911 B, 41, 43, 107, 112, pl. xu, fig. 4; text-figs. 5, 36-39, 41.
 1915 A, 97.
 Cope, E. D. 1891 N, 28, figs. 11, 12.
 Cope and Matthew. 1915 A, pl. vii, fig. 1; pl. viii.
 Cummins, W. F. 1908 A, 744.
 Gregory, W. K. 1920 A, 115, fig. 12.
 Huene, F. 1913 B, 372, fig. 57.
 Moodie, R. L. 1911 E, 240.
 1914 A, 27.
 Osborn, H. F. 1918 D, 686.
 Williston, S. W. 1914 C, 60, fig. 2.
 1914 D, 417, figs. 18, 19.
 1915 B, 247, figs. 1, 2, 4.
 1925 A, 29, fig. 15.
 Wiman, C. 1916 B, 215.
 Penman (Wichita), Texas (Enid); Oklahoma.

Trimerorhachis leptorhynchus Case.

- Case, E. C. 1902 B, 63, 64.
 Beede, J. W. 1907 A, 139.
 Case, E. C. 1911 B, 45.
 1915 A, 97.

Moodie, R. L. 1911 E, 240.

1914 A, 27.

Williston, S. W. 1910 D, 535.

Permian (Emid), Oklahoma.

Trimerorhachis medius Broom.

Broom, R. 1913 F, 577, fig. 10.

Permian Locality not given.

Trimerorhachis mesops Cope.

Hav, O. P. 1902 A, 420.

Beebe, J. W. 1907 A, 120.

Broili, F. 1904 A, 30.

Case, E. C. 1911 B, 46, 112, pl. XII, fig. 1.

1915 A, 97.

Cummins, W. F. 1908 A, 743.

Huene, F. 1912 B, 372, fig. 56.

Moodie, R. L. 1911 E, 240

1914 A, 27

Permian (Clear Fork); Texas.

Trimerorhachis sp. indet.

Cummins, W. F. 1908 A, 740 Permian, Texas.

Phillips, W. B. 1912 A, 41 (Trimerorachis)

Permian (Wichita), Texas

Tilton, J. L. 1926 B, 393, fig. 2 (This genus?).

Permian (Gilmore); West Virginia.

TERSOMIUS Case. Type *T. terensis* Case.

Case, E. C. 1910 A, 180.

Ardt, T. 1916 A, 98.

Broili, F. 1913 A, 98.

Case, E. C. 1911 B, 14, 51.

Moodie, R. L. 1911 C, 379.

Williston S. W. 1916 B, 207.

Zittel and Broili 1923 A, 193.

A genus of uncertain position.

Tersomius texensis Case.

Case E. C. 1910 A, 180, text-fig. 10.

1911 B, 51.

1915 A, 97.

Moodie, R. L. 1914 A, 26.

Permian (Clear Fork), Texas

DISSOROPHIDÆ Willist.

Williston S. W. 1910 A, 277.

Hav, O. P. 1902 A 429 (Chelydosauria, in part); 492 (Otocœlidae).

Abel, O. 1919 A, 278.

Ardt, T. 1912 A 656 (Dissorophidæ).

1916 A 98 142 ("dissorophiden").

Boulenger G. A. 1902 F, 383.

Broili F. 1904 A, 69, 100 (Otocœlidae)

1913 A, 98 (Dissorophidæ).

Case E. C. 1905 A, 298 (Otocœlidae, Chelydosauria in part)

1905 B, 127 (Otocœlidae, Chelydosauria, in part)

1907 E 157 (Chelydosauria, in part)

1908 D 565 (Chelydosauria, in part)

1911 B, 57 (Otocœlidae), 14, 51, 80, 116 (Dissorophidæ).

Case E. C. 1915 A, 97, 107.

Case and Williston 1913 A, 7 (Dissorophidæ, Aspidosauria)

Eastman, C. R. 1912 C, 657.

Hav O. P. 1908 A, 29 (Otocœlidae)

Huene F. 1913 G, 507.

1920 C, 211

Jaekel, O. 1922 A, 25

Moodie, R. L. 1911 E 241

Watson D. M. S. 1919 B, 65 (Dissorophidæ, Dissorophinae).

Williston S. W. 1908 A, 140 (Otocœlidae)

1910 D, 535

1914 B, 56 (Dissorophidæ, Dissorophinae).

1916 B, 202 (Dissorophidæ, Dissorophinae).

Zittel and Broili 1923 A, 190.

DISSOROPHIUS Cope. Type *D. multicinctus* Cope.

Hav, O. P. 1902 A, 420 (Dissorophus); 430 (Otocœlus)

Abel, O. 1919 A, 280

Anonymous 1912 A, 520.

Broili F. 1904 A, 43 (Dissorophus, 100 (Otocœlus)

1913 A, 97.

Broom R. 1903 D, 292 (Otocœlus).

Case E. C. 1905 A, 298 (Otocœlus).

1905 B 127 (Otocœlus).

1907 D, 558 (Otocœlus)

1908 C, 579

1908 D, 565 (Otocœlus)

1911 B 14, 52, 82, 115 (Dissorophus); 54, 58, 59 (Otocœlus a syn.)

1915 A, 110, 128, 130

Cummins, W. F. 1908 A, 745.

Geol. Mag. 1912 A, 520.

Goette, A. 1899 A 426

Gregory, W. K. 1917 B, 313, 317.

Hay, O. P. 1908 A, 29 (Otocœlus).

Hoepen, E. C. N. 1915 A, 140 (Dissorophus)

Huene, F. 1913 B, 379

1913 G, 502

Jaekel, O. 1922 A, 25.

Lakjer, T. 1927 A, 192.

Moodie, R. L. 1908 A, 30

1909 E, 39

Nopce F. 1926 A, 635

Schuchert, C. 1910 A, 570

Stappenbeck, R. 1905 A, 430 (Otocœlus).

Sternberg C. H. 1909 C, 242 (Otocœlus).

Watson D. M. S. 1913 C, 346.

1919 B, 8, 50

Williston, S. W. 1910 A, 259, 278

1910 D, 532, 534, 535 (Dissorophus), 534 (Otocœlus).

1914 B, 51, 56

1914 E, 121.

1916 B, 202

Zittel and Broili 1911 A 169 (Dissorophus, Otocœlus)

Zittel and Broili 1923 A, 170, 191, fig 264
Zittel and Eastman 1902 A, 181 (Otocœlus)

Dissorophus multicinctus Cope.

Hav. O P 1902 A, 420 (D multicinctus D articulatus), 430 (Otocœlus testudineus, O mimeticus).
Beede, J W 1907 A, 120 (Otocœlus testudineus, O mimeticus)
Case E C 1911 B 54 59 115 117, pl xiii pl xxii, figs. 11, 12, text-figs. 10, 45 (Otocœlus testudineus O mimeticus as syns)
1915 A, 97, 129, text-fig. 16 (D. articulatus, Otocœlus mimeticus as syns)
Cummins W F 1908 A, 744 (D multicinctus O mimeticus, Otocœlus testudineus)

Gadow, H 1901 B, 82
Huene, F 1913 B, 369 (D mimeticus).
1922 G 406 (Dissorophus)
Moodie R L 1908 A, 30 (D multicinctus, D. articulatus)
1911 C, 376
1911 E 241 (D multicinctus; D mimeticus)
1914 A, 18 (D multicinctus); 23 (Otocœlus testudineus, O mimeticus)
Williston S W 1910 A, 277
1910 D, 535, pls i-m.
1914 B, 56
Permian (Clear Fork), Texas.

Cacops Willist. Type *C. aspidephorus* Willist.

Williston S W 1910 A, 253, 278

Abel, O 1912 F, 385, 387.

1919 A 256 261 279

Anonymous 1912 A 519, 520

Broili F 1913 A, 97

1913 C 529.

1915 A, 574

1915 C, 285

1926 A 208

Case, E C 1911 B, 14, 62, 83, 119

1912 A 203

1915 A 110 128, 129

Case and Williston 1913 A, 7.

Geol Mag 1912 A 519, 520

Gregory, W K 1917 A, 381

1917 B 317

Hoepen, E C N 1915 A, 141.

Huene F 1912 D, 103

1913 B, 379

1913 G 502

1922 G 453

Jaekel O 1922 A 22, 23

Kingsley J S 1925 A 37, fig 41

Lakjer T 1927 A figs 73, 84

Moodie R L 1915 J 318.

Morton D J 1926 A 413

Nopce F 1923 E, 1047

1923 H, 14 pl v, fig 1.

1926 A 635.

Osborn, H F 1916 E, 613.

1917 B, 182, fig

Romer A S 1922 B, 543

1928 C, 257.

Schmalhausen J 1917 A, 107

Schuchert and Levene 1927 A, 290, fig.

Thorpe, M. R. 1928 A, 77.

Watson, D M S 1913 C, 346

1914 D, 167.

1916 E, 84

1917 B, 2.

Watson D M S 1919 A, 286

1919 B, 8, 50 53, 65

1926 A 204, 241

Williston, S W 1910 D, 526, 535

1911 B, 42

1914 A, 35, fig 18

1914 B, 51, 56

1914 C, 68

1914 E 121

1916 B, 202, fig 43

1918 B 91, fig 16

1925 A 25 125 126 143 159, figs 11, 96, 130

Zittel and Broili 1911 A, 169.

1923 A 190

Cacops aspidephorus Willist.

Williston S W 1910 A 253, pls. vi-xiv, xvii.

Abel, O 1919 A 254 figs 195, 209, 210.

1920 A, 352, fig 556

1921 A, 250, fig 92

Broili F 1926 A 208, figs 2, 3

Case, E C 1911 B, 63, 119 pls xvii xviii, pl. xix fig 1 pls xx-xxii, pl xxiii, figs 1-10, pl xxiv fig 3

1915 A, 97, 129, text-fig 17

Frassetto F 1915 A, 14, fig 6

Gilmore, C W. 1926 A, 21, 36, text-fig. 14.

Gregory, W K 1915 D, 375, fig 15

Jaekel O 1911 A, 114, fig 129

Lull, R S 1917 B, 493, fig 146

1918 C, 125, fig

Lydekker, R 1911 A, 688, pl (C aspidephorus)

Moodie, R L 1911 C 377

1911 E, 241

Williston, S W. 1910 D, 528, 535.

1914 B, 56

1914 C, 62, fig 4

Zittel and Broili 1923 A, 181.

Permian (Clear Fork), Texas

ASPIDOSAURIDÆ Case.

Case E C. 1910 A, 179.

Abel, O 1919 A, 280.

Aldt, T 1912 A, 656

1916 A, 98, 142 ("aspidosauriden").

Broili, F 1913 A, 98

Case, E C. 1910 A, 179.

Case, E C 1911 B, 14, 63, 80, 83, 116

1915 A, 97, 107

Case and Williston 1913 A, 7.

Huene, F 1913 G, 507

Watson, D M S. 1919 B, 65 (Aspidosaurinæ).

Williston, S. W. 1914 B, 56 (Aspidosaurinæ).

1916 B, 203 (Aspidosaurinæ).

ASPIDOSAURUS Broili.

- Broih, F. 1904 A, 40
 Abel, O. 1919 A, 280.
 Amalitsky, V. P. 1924 B, 74
 Case, E. C. 1911 B, 14, 63 83 pl xix fig 2.
 1915 A, 110, 130.
 Jaekel, O. 1922 A, 25
 Osborn, H. F. 1916 E, 614.
 1917 B, 182.
 Watson, D. M. S. 1919 B, 7, 50
 Williston, S. W. 1910 A, 259, 271.
 1910 D, 535
 1911 B, 12
 1911 D, 379
 1914 B, 56.
 1915 A, 578.
 1916 B, 203.
 Zittel and Broih. 1911 A, 169.
 1923 A, 170, 190, fig 263.

Aspidosaurus apicalis (Cope).

- Hav, O. P. 1902 A, 422 (Zatrachys)
 Broih, F. 1904 A, 43 (Zatrachys)
 Case, E. C. 1907 C, 665, fig 1 (Zatrachys).
 1911 B, 65 text-fig 15
 1915 A, 97
 Cummins, W. F. 1908 A, 744 (Zatrachys)
 Moodie, R. L. 1911 E, 240
 1914 A, 15
 Williston, S. W. 1910 A, 260 (Zatrachys).
 1911 B, 135 (Syn? of *Platychistix rugosus*).
 1914 B, 55
 Peiman; New Mexico.

Aspidosaurus chiton Broili.

- Broih, F. 1904 A, 40, pl vi, figs. 6-19; text-fig 2
 Case, E. C. 1911 B, 63, pl v, fig 5; text-fig 13
 1915 A, 97, 130, text-fig. 18.
 Moodie, R. L. 1911 E, 241.
 1914 A, 15

BROILIELLUS Willist.

- Williston, S. W. 1914 B, 49, 56.
 Abel, O. 1919 A, 280.
 Case, E. C. 1915 A, 110, 130.
 Nopsca, F. 1923 E, 1052.
 Osborn, H. F. 1918 D, 687
 Watson, D. M. S. 1919 B, 7, 50, 53, 65.
 Williston, S. W. 1915 B, 575.
 1916 A, 165
 1916 B, 203, fig 44.

Broiliellus peltatus Willist.

- Williston, S. W. 1911 B, 13, pl xxxii, fig. 7
 (*Aspidosaurus?*).

ALGEOINOSAURUS Case.

- Case, E. C. 1911 B, 14, 60, 83.
 Case, E. C. 1915 A, 110, 128
 Watson, D. M. S. 1919 B, 7, 65.
 Williston, S. W. 1914 B, 55, 56.
 1916 B, 203

Algeinosaurus apthitos Case.

- Case, E. C. 1911 B, 60, fig. 12.

Type *A. chiton* Broili.

- Williston, S. W. 1910 D 535
 1914 B, 56.
 Peiman (Clear Fork); Texas

Aspidosaurus crucifer Case.

- Case, E. C. 1903 C, 399, fig 5 (Zatrachys).
 1907 C, 665, fig. 2 (Zatrachys)
 1911 B, 66 text-fig 15
 1915 A, 97, 130
 Moodie, R. L. 1914 A, 15
 Watson, D. M. S. 1919 B 8 (*A. cruciger*)
 Williston, S. W. 1910 A, 261 (Zatrachys)
 1914 B, 55
 Peiman (Wichita?, Clear Fork?), Texas
 (Emid), Oklahoma

Aspidosaurus glascocci Case.

- Case, E. C. 1910 A, 179, text-fig 9
 1911 B, 64, text-fig 14
 1915 A, 97
 Moodie, R. L. 1914 A 15
 Watson, D. M. S. 1919 B 8
 Williston, S. W. 1911 B, 14
 1914 B 55
 Peiman (Clear Fork), Texas

Aspidosaurus novomexicanus Willist.

- Williston, S. W. 1911 B, 12 pl xxxviii, fig 1
 Case, E. C. 1915 A, 97
 Case and Williston 1913 A 7, fig. 3
 Huene, F. 1913 B, 379
 Moodie, R. L. 1914 A 15
 Watson, D. M. S. 1914 D 167
 Williston, S. W. 1911 D 379
 1914 B, 51 56
 Peiman, New Mexico

Aspidosaurus sp. indet.

- Wegman, C. H. 1915 A, 25 Permian (Wichita), Oklahoma

Type *B. texensis* Willist.

- Case, E. C. 1915 A 97, 167
 Moodie, R. L. 1914 A 15 (*Aspidosaurus*)
 Williston, S. W. 1914 B, 54 (*Aspidosaurus*); 56
 (*Broiliellus*).
 Peiman (Clear Fork), Texas

Broiliellus texensis Willist.

- Williston, S. W. 1914 B 50 56 figs 1-3
 Case, E. C. 1915 A 97 130
 Gregory, W. K. 1920 A 115 fig 16
 Peiman (Clear Fork), Texas.

Type *A. apthitos* Case.

- Case, E. C. 1907 C 665 figs 3-6 (Zatrachys apthitos?).
 1915 A, 97
 Mimer, R. W. 1925 A, 165, fig 6
 Moodie, R. L. 1914 A 14 (*Algeinosaurus*)
 Williston, S. W. 1914 B, 56
 Peiman (Clear Fork), Texas

ZATRACHYDIDÆ Williston.

Williston S W 1910 D, 535
 Abel, O 1919 A 231 (Zatrachydæ)
 Jaekel, O 1922 A, 25 (Zatrachydæ)
 Watson, D M S 1919 B, 66 (Zatrachydæ)

Williston, S W 1914 B, 35
 1916 B, 203
 Zittel and Broili 1923 A, 191 (Zatrachidæ).

ZATRACHYS Cope. Type *Z. serratus* Cope.

Hay O P 1902 A, 422
 Abel O 1919 A, 281
 Airdt T. 1916 A, 98
 Broili, F. 1904 A 35 43 47 49 (Zatrachys)
 Broom R 1913 F 592
 Case, E C 1911 B 14 47 82, 113 text-fig 43
 1915 A 111, 128
 Cummins W F. 1908 A, 745
 Dollo, L. 1884 D, 88
 Gadow, H 1901 B 82 (Zatrachys)
 Lakjer, T 1927 A 195
 Lydekker, R 1885 F, 10 12
 Nopce F 1926 A 635
 Schuchert C 1910 A 570
 Stensio E A 1921 A 142
 Watson D M S 1919 B 9 66
 Williston, S W 1910 A 260.
 1910 D 532
 1915 A 578
 1916 B, 204
 Zittel and Broili 1923 A, 191.

Zatrachys conchigerus Cope.

Hay O P. 1902 A, 422
 Beede, J W 1907 A 120
 Case, E C 1911 B, 50
 1915 A 97
 Cummins W F 1908 A, 744

Moodie R L 1911 E, 240.
 1914 A 28.
 Permian (Clear Fork); Texas

Zatrachys microphthalmus Cope.

Hay O P 1902 A 422
 Abel O 1919 A 282, fig 211
 Beede J W 1907 A 120
 Broili F 1904 A, 43 (Zatrachys)
 Broom R 1913 E, 531
 1913 F, 592, fig 21
 Case E C 1915 A, 128, text-fig 15
 Cummins W F 1908 A, 743
 Huene, F 1913 B 370 fig 54
 Moodie, R L 1911 E 240
 Permian (Clear Fork) Texas

Zatrachys serratus Cope.

Hay O P 1902 A 422
 Beede, J W 1907 A 119.
 Broom R 1913 F 594
 Case E C 1911 B 48 113, text-figs 8, 43.
 1915 A, 97
 Cummins W F 1908 A, 742
 Huene F 1922 G 453
 Moodie R L 1911 E, 240
 1914 A, 28
 Watson D M S 1919 B 8 ("A" serratus).
 Permian (Wichita), Texas

PLATYHSTRIX Willist. Type *Ctenosaurus rugosus* Case.

Williston, S W 1911 D 379
 Abel O 1919 A, 281 (Platyhystrix), 370 (Ctenosaurus)
 Case E C 1915 A 111 115 122 144
 Drevermann, F. 1915 A, 405 (Ctenosaurus)
 Huene F 1919 A 180
 Schuchert C 1910 A 570 (Ctenosaurus)
 Watson D M S 1919 B 9, 66
 Williston S W 1911 B 135.
 1915 A, 578
 1916 B, 204, fig. 45.

Platyhystrix rugosus (Case).

Case E C 1910 A, 176 (Ctenosaurus)
 1915 A 99
 Williston S W 1911 B, 135, pl xxxvi, fig 1;
 pl xxxvii, fig 6.
 1911 D, 379
 Williston and Case 1913 A, 6
 Permian, New Mexico.

Platyhystrix sp. indet.

Cummins, W F. 1908 A, 740 (Ctenosaurus)
 Permian; Texas.

GONIOCARA, genus novum. Type *Goniocephalus willistoni* Broili.

Broili F 1913 A, 100 (Goniocephalus, procoeloped)
 Williston, S W 1916 B 208 (Goniocephalus)
 The position of this genus is doubtful It may be a reptile

Goniocara willistoni (Broili).

Broili F 1913 A, 100 pl ix, figs 3, 4 (Goniocephalus)
 Case E C. 1915 A, 99 (Goniocephalus).
 Permian (Clear Fork), Texas

Suborder LABYRINTHODONTES Meyer.

Meyer, H 1842 A, 301
 Hay, O. P 1902 A, 417 (Apocerospondyli, part).
 Abel, O 1921 A, 251 ("labyrinthodonten")
 Allis, E P 1905 A, 494.
 Amalitsky, V P 1924 A 50 ("labyrinthodonts")
 Airdt, T. 1907 D, 661 (Labyrinthodontidæ), 643 (Stereospondyli)

Airdt, T 1912 A, 662, 663 (Labyrinthodontidæ)
 1916 A, 100 143 ("labyrinthodonten")
 Brandt J F 1865 A, 8 ("labyrinthodonten").
 Branson, E B 1905 B, 568 (Labyrinthodontidæ)
 Branson and Mehl 1928 B, 301 ("labyrinthodonts").

- Branson and Mehl 1928 C ("labyrinthodonts").
 Boulenger, G A 1902 F, 383 (Labyrinthodonta).
 1904 C, 479, 480.
 Broili, F 1913 C, 530 (Stereospondyli).
 1926 A, 213 ("labyrinthodonten").
 Broom, R 1899 A, 766 (Labyrinthodonta).
 1903 E, 136 ("labyrinthodonts").
 1903 G, 145 ("labyrinthodonts").
 1903 I, 557 ("labyrinthodonts").
 1909 B, 165 ("labyrinthodonts").
 1911 A, 917 ("labyrinthodonts").
 Carus, V. 1875 A, 485 (Labyrinthodonta).
 Cope, E D 1880 U, 145 ("labyrinthodontes").
 1891 N, 30 (Labyrinthodontidae).
 Dollo, L 1884 D, 91
 1885 C, 306 (Labyrinthodonta).
 Fias, E 1901 D, 318 (Labyrinthodon).
 1913 A, 275 ("labyrinthodonten").
 Gadow, H 1901 B, 82 (Labyrinthodonta).
 Gaupp, E 1912 A, 563, 566 ("labyrinthodonten").
 Gervais, P 1859 A, 504 (Labyrinthodonta).
 Giebel, C G 1855 A, 95 (Labyrinthodonta).
 Green, J R 1861 A, 219, 227 (Labyrinthodonta).
 Gregory, W K 1915 D, 365 (Stereospondyli).
 Haeckel, E 1868 A, 448 (Labyrinthodonta).
 Heilmann, A 1887 A, 310 (Labyrinthodonta).
 Huene, F 1902 A, 68 (Stereospondyli).
 1913 G, 506 (Stereospondyli).
 1920 C, 211 (Stereospondyli).
 1922 G, 435 ("labyrinthodonten").
 1926 A, 262 (Stereospondyli).
 Huxley, T H 1865 C, 3 ("labyrinthodonts").
 1870 F, 528 ("labyrinthodonts").
 1872 A, 150 seq. (Labyrinthodonta).
 1875 C, 751, 761 (Labyrinthodonta).
 Jaekel, O 1922 A, 11
 Jaekel and Philipp 1903 A, 14 (Labyrinthodonta).
 Lankester, E R 1905 A, 246 ("labyrinthodonts").
 Makowsky, A 1876 A, 161 ("labyrinthodonten").
 Matthew, G F. 1903 A, 109 (labyrinthodonts).
 Meyer, H 1845 C, 282 (Labyrinthodontes).
 Miall, L C 1874 C, 417 (Labyrinthodonta).
 Moodie, R L 1908 B, 363 (Stereospondyli).
 1908 G, 516, 520 (Stereospondylia).
 1909 C, 121 (Stereospondyli).
 1909 D, 243 (Stereospondyli).
 1909 E, 39 (Stereospondyli).
 Moodie, R. L. 1910 B, 721 (Labyrinthodontidae).
 1911 A, 494 (Labyrinthodontidae).
 1915 F, 189, 190 (Stereospondylia).
 1915 H, 638 (Stereospondylia).
 1916 A, 5, 35, 198 (Stereospondylia).
 1922 B, 332 ("labyrinthodonts").
 Newton, E. F. 1900 A, 645 (Labyrinthodonta).
 Osborn, H F 1899 J, 415 (Stegocerphala).
 Owen, R 1845 B, 195 (Labyrinthodonta); pls. lxiii-lxiv b ("labyrinthodonts").
 1860 A, 158 (Labyrinthodonta).
 1860 E, 183 (Labyrinthodontes).
 1866 A, 14 (Labyrinthodonta).
 1876 D, 69 (Labyrinthodonta).
 Reynolds, S. H 1897 A, 545, fig. 27 (Labyrinthodonta).
 Romer, A S 1925 A, 180 (Labyrinthodonta).
 Schwarz, H 1908 A, 382 (Stereospondyli).
 Seeley, H G 1879 A, 180
 1899 B, 69 ("labyrinthodonts").
 1905 A, 219 ("labyrinthodonts").
 Stensio, E A 1921 A, 140 (Stereospondyli).
 Stromer, E 1912 A, 60 (Labyrinthodonta).
 Sushkin, P P 1927 A, 270, 310 (Stereospondyli).
 Terra, P 1911 A, 225 (Labyrinthodonta).
 Thevenin, A 1910 A, 4 ("labyrinthodonts").
 Tms, H W M 1903 A, 133 (Labyrinthodonta).
 Vogt, C 1854 A, 677 (labyrinthodonten).
 Watson, D M S 1917 C, 168, 181 (Labyrinthodonta).
 169 (Stereospondyli).
 1919 A, 287 (Labyrinthodonta).
 1919 B, 21, 49, 50, 67 (Stereospondyli), 64 (Labyrinthodonta).
 1919 C, 239 ("labyrinthodonts").
 1921 A, 333 (Labyrinthodonta).
 1921 C, 73 (Labyrinthodonta).
 1926 A, 190, 194, 199 ("labyrinthodonts," Stereospondyli).
 Wilckens, O 1911 A, 708 (labyrinthodonten).
 Wilkison, S W 1905 D, 297 (Labyrinthodonta).
 1909 A, 302 ("Labyrinthodonts").
 Will, L J 1916 A, 5 ("labyrinthodonts").
 Wiman, C 1914 A, 1 ("labyrinthodonten").
 1915 A, 1 ("labyrinthodonten").
 Woodward, A S 1904 D, 170 (labyrinthodonts).
 1924 A, 117 ("labyrinthodonts").
 Wyman, J 1843 B, 131 (labyrinthodonts).
 Zittel, K A 1890 A, 397 (Stereospondyli).
 Zittel and Broili 1911 A, 171 (Stereospondyli).
 1923 A, 193 (Stereospondyli).

MASTODONSAURIDÆ Nicholson and Lydekker.

- Nicholson and Lydekker 1889 A, 1035.
 Hay, O P 1902 A, 423
 Carius, V 1875 A, 486 (Mastodonsauria).
 Gregory, W K 1917 B, 313
 Huene, F 1913 G, 508 (Euglypta).
 1920 F, 453, 464
 Huxley, T. H 1863 C, 570 (Mastodontosauria).
 Jaekel, O 1922 A, 23.

- Miall, L C 1875 A, 149 (Euglypta).
 Moodie, R L 1916 A, 198.
 Quenstedt, F. A 1861 A, 297 ("mastodonsaurier").
 Terra, P 1911 A, 226 (Mastodontosauria).
 Watson, D M S 1919 B, 68.
 Zittel and Broili 1923 A, 196.

MASTODONSAURUS Jaeger. Type *Salamandroides giganteus* Jaeger.

- Hay, O P 1902 A, 223.
 Abel, O 1912 F, 212.
 1914 E, 392.

- Abel, O 1919 A, 247, fig. 191; 287, fig. 220.
 Allis, E P. 1919 B, 63.
 Arlitt, T 1916 A, 100

Branson, E. B. 1905 B, 568.
 Broili, F. 1904 A, 33
 1904 D, 579.
 1927 E, 20.
 Bronn, H. G. 1849 A, 690.
 Broom, R. 1908 D, 373.
 Case, E. C. 1922 B, 24, text-fig. 6
 Credner, H. 1893 A, 673
 Dollo, L. 1885 C, 307.
 Drevermann, F. 1920 A, 90, 104
 Fejérváry, G. J. 1921 C, 10.
 Fraas, E. 1913 A, 279.
 Gadow, H. 1896 A, 20 (This genus?)
 Gaudry, A. 1885 B, 49.
 Gaupp, E. 1894 A, 102.
 1908 B, 524
 1912 A, 563
 Gervais, P. 1859 A, 506
 Giebel, C. G. 1855 A, 96, pls. xl, xli.
 Hitchcock and Grier 1927 A, 192.
 Huene, F. 1902 A, 14
 1909 D, 335, fig. 11
 1913 G, 505, figs. 7, 10.
 1920 F, 453, figs. 10, 11.
 1922 G, 449, 451, 458, figs. 2-12.
 Huxley, T. H. 1862 A, 1m.
 1863 C, 568
 Jaeger, G. F. 1838 A, 547.
 Jaekel, O. 1922 A, 12.
 Kehler, F. A. 1896 A, 353.
 Kingsley, J. S. 1902 B, 333.
 1925 A, 121, fig. 127.
 Koken, E. 1893 B, 270.
 Lakjer, T. 1927 A, 198.
 Lucas, F. A. 1901 B, 376
 Lydekker, R. 1885 F, 6, 12
 Matthew, W. D. 1923 C, 405.
 Meunier, S. 1903 A, 775 ("mastodonsaure")

DICTYOCEPHALUS Leidy.

Hay, O. P. 1902 A, 423.
 Arldt, T. 1916 A, 100.
 Branson, E. B. 1905 B, 568, 590
 Huene, F. 1926 E, 6
 Zittel and Broili 1911 A, 171.

Dictyocephalus elegans Leidy.

Hay, O. P. 1902 A, 423

EUEPELOR Cope. Type *Mastodonsaurus durus* Cope.

Hay, O. P. 1902 A, 423
 Arldt, T. 1916 A, 100
 Branson, E. B. 1905 B, 568, 591.
 Broili, F. 1921 A, 342

Eupelor durus Cope.

Hay, O. P. 1902 A, 423.

PARIOSTEGUS Cope. Type *P. myops* Cope.

Hay, O. P. 1902 A, 423.
 Arldt, T. 1916 A, 100.
 Branson, E. B. 1905 B, 592.

Pariostegus myops Cope.

Hay, O. P. 1902 A, 423
 Branson, E. B. 1905 B, 594.

Meyer, H. 1842 A, 301.
 Miall, L. C. 1874 C, 418-435, pls. xxvi-xxviii
 1875 C, 23
 Miner, R. W. 1925 A, 161.
 Moodie, R. L. 1910 B, 721.
 1911 H, 239.
 1912 E, 34.
 1915 J, 318, fig. 7.
 Nicholson and Lydekker 1889 A, 1035.
 Nopcea, F. 1923 E, 1052.
 1926 A, 635
 Owen, R. 1845 B, 196, pl. lxiii, fig. 1 (Syn. of
 Labyrinthodon)
 Romer, A. S. 1925 A, 180
 Schwarz, H. 1908 A, 322
 Seitz, A. L. L. 1907 A, 249.
 Stickler, L. 1899 A, 85
 Sushkin, P. P. 1927 A, 314
 Thevenin, A. 1910 A, 36, fig. 21
 Watson, D. M. S. 1914 C, 396
 1916 E, 84
 1919 B, 36, 49, 60, fig. 22
 Wills, L. J. 1916 A, 16
 Wiman, C. 1914 A, 6, fig. 4.
 Woodward, H. 1904 H, 143
 Zittel and Broili 1911 A, 172
 1923 A, 177, 196, figs. 274, 282, 300

Mastodonsaurus sp. indet.

Hay, O. P. 1902 A, 423
 Branson, E. B. 1905 B, 595
 Dames, W. 1899 H, 152
 Lucas, F. A. 1901 B, 376 Triassic, Arizona
 Moodie, R. L. 1911 A, 495
 1911 H, 239
 1916 A, 198, pl. xxii, fig. 6
 Sauvage, H. E. 1901 B, 9 ("labyrinthodonte")
 Watson, D. M. S. 1919 B, 21 (This genus?)

Type *D. elegans* Leidy.

Huene, F. 1920 F, 458
 Jaekel, O. 1922 A, 11.
 Lyman, B. S. 1894 A, 207
 Moodie, R. L. 1911 A, 495
 1914 A, 17
 Schuchert, C. 1910 A, 579
 Watson, D. M. S. 1919 B, 48.
 Triassic (Newark); North Carolina

Huene, F. 1921 B, 572, figs. 16-18. (This genus
 and species?)
 Lyman, B. S. 1894 A, 212
 Moodie, R. L. 1911 A, 495
 1914 A, 19
 Watson, D. M. S. 1919 B, 48.
 Triassic (Newark); Pennsylvania.

METOPOSAURIDÆ Watson.

Watson, D. M. S. 1919 B, 67
Huene, F. 1920 F, 456, 464

Jackel, O. 1922 A, 11, 23
Zittel and Broili 1923 A, 195.

METOPOSAURUS Lydekker. Type *Labyrinthodon diagnosticus* Owen.

Lydekker, R. 1890 A, 152 (To replace *Metopias* Meyer, preoccupied)
Abel, O. 1919 A, 257, 290, fig. 217 (*Metopias*)
1920 A, 352, fig. 554 (*Metopias*)
Amalitsky, V. P. 1921 A, 4
1924 A, 50, 52
Ardit, T. 1916 A, 100
Case, E. C. 1922 B, 21, text-fig. 6
Dollo, L. 1885 D, 630 (*Metopias*)
Drevermann, F. 1920 A, 94, 104 (*Metopias*)
Fejérváry, G. J. 1921 C, 10
Fraas, E. 1889 A, 145 (*Metopias*)
Gaudry, A. 1885 B, 49 (*Metopias*)
1890 C, 171, fig. 265 (*Metopias*)
Huene, F. 1920 F, 456, fig. 13
1922 G, 396, figs. 1, 36
1922 H, 152
Jackel, O. 1911 A, 112 (*Metopias*)
1922 A, 5
Kingsley, J. S. 1902 B, 333 (*Metopias*)
Lakker, T. 1927 A, 192, 198 (*Metopias*)
Lucas, F. A. 1904 A, 193
Meyer, H. 1842 A, 302 (*Metopias*)
Osborn, H. I. 1917 B, 183 (*Metopias*)
Owen, R. 1860 E, 196 (*Labyrinthodon*)
Sushkin, P. P. 1927 A, 314 (*Metopias*)
Watson, D. M. S. 1916 E, 85
1919 B, 32, 50, figs. 18, 20
1926 A, 191
Williston, S. W. 1905 D, 297
Zittel, K. A. 1890 A, 402, figs. 392, 393 (*Metopias*)
Zittel and Broili 1911 A, 172, fig. 304 (*Metopias*)

Zittel and Broili 1923 A, 195
Zittel, Eastman, etc. 1902 A, 223, fig. 224 (*Metopias*)

Metoposaurus fraasi Lucas.

Lucas, F. A. 1904 A, 194, pl. m
Branson, E. B. 1905 B, 569, 589
Boh, F. 1921 A, 342
Case, E. C. 1915 A, 75
1920 A, 2 (No name)
1922 B, 23, text-fig. 5
Cross, W. 1908 A, 113
Cross and Howe 1905 A, 480.
Dutton, N. H. 1910 A, 42 (*M. fraasi*)
Herbert, H. L. 1917 A, 34, 46
Huene, F. 1920 F, 457
1926 E, 3, 4, 6
Lucas, F. A. 1901 B, 376 (*Mastodonsaurus*?)
Merrill, G. P. 1907 A, 74
Moodie, R. L. 1911 A, 495
1914 A, 22
Zittel and Broili 1911 A, 172
1923 A, 196
Triassic (Chinle), Arizona
Metoposaurus jonesi Case.

Case, E. C. 1920 A, 1-3, pl. 1
1922 B, pl. n, text-fig. C (*This genus?*)
Huene, F. 1922 H, 149
1926 E, 5
Triassic (Dockum), Texas

ANASCHISMA Branson. Type *A. browni* Branson.

Branson, E. B. 1905 B, 569, 570
Abel, O. 1919 A, 285
Allis, E. P. 1919 B, 82
Amalitsky, V. P. 1924 A, 56
Ardit, T. 1916 A, 100
Broom, R. 1913 H, 73
Case, E. C. 1922 B, 13, 21
Gaupp, E. 1912 A, 565
Huene, F. 1926 E, 4
Jackel, O. 1922 A, 14, 21.
Lakker, T. 1927 A
Moodie, R. L. 1910 B, 721
1912 E, 34
Versluys, J. 1912 B, 552.
Watson, D. M. S. 1912 B, 584
1913 F, 957
1919 B, 35, 50
Wiman, C. 1914 A, 6, fig. 6 (*Anaschisma*)
1916 B, 214
Zittel and Broili 1911 A, 171
1923 A, 196

Anaschisma brachygnatha Branson.

Branson, E. B. 1905 B, 570, figs. 4, 9
Huene, F. 1920 F, 458
1922 H, 148
1926 E, 4
Jackel, O. 1923 A, 11
Moodie, R. L. 1908 G, 528
Triassic (Pope Agui), Wyoming

Anaschisma browni Branson.

Branson, E. B. 1905 B, 570, 585, figs. 1-8, 10.
Huene, F. 1920 F, 457
1922 H, 148
1926 E, 4
Jackel, O. 1922 A, 11, 12
Moodie, R. L. 1908 G, 528, figs. 12, 14
1911 A, 495
1914 A, 14
Versluys, J. 1912 B, 569, fig. W.
Triassic (Pope Agui), Wyoming

BUETTNERIA Case. Type *B. perfecta* Case.

- Case, E. C. 1922 B, 13
 Branson and Mehl 1928 C, 488
 Case, E. C. 1921 C 445 (No description)
Buettneria perfecta Case.
 Case, E. C. 1922 B 13 pl. 1-4, text-figs 1-3

- Branson and Mehl 1928 A, 325.
 Case, E. C. 1921 C, 445 (No description).
 1922 A, 445 (Nom. nud.)
 1924 A 423, pl. XLIII, fig. 2, pl. XLV
 Huene, F. 1926 E, 5
 Thriess, Texas

TYPTHORAX Cope. Type *T. coccinarum* Cope.

- Hay O. P. 1902 A, 511
 Branson, E. B. 1905 B, 568
 Huene, F. 1922 H, 150, 152
 1926 E, 2
 Lydekker, R. 1912 C, 121
 Zittel and Brodh. 1911 A, 260
Typtothorax coccinarum Cope.
 Hay, O. P. 1902 A 511.

- Cross W. 1907 A 640 ("Typtothorax")
 Cross and Howe 1905 A, 494
 Gregory and Camp 1918 A, 531, text-fig. 11
 Huene, F. 1915 A, 485, figs. 1-10
 1922 F, tab.
 1926 E 5 7, 9 figs. 1, 2
 Merrill, G. P. 1907 A, 81
 Thriess (Dolores) New Mexico

CALAMOPS Sinclair. Type *C. paludosus* Sinclair.

- Sinclair W. J. 1917 A 319

- Calamops paludosus** Sinclair.
 Sinclair W. J. 1917 A 319, fig. 1
 Thriess (Newark), Pennsylvania.

Subclass **LISSAMPHIBIA** Haeckel.

- Haeckel L. 1866 Gen. Morphology
 Auldt, T. 1907 D, 663
 Gadow, H. 1898 A, 13

- Haeckel E. 1868 A, 441.
 1873 A, 512

Order **CAUDATI** Duméril.

Unless otherwise indicated the authors as quoted, apply to this order the name *Urodela*.

- Duméril J. M. C. 1806 A 94 (Caudata).
 Hay O. P. 1902 A 421
 Abel, O. 1912 F, 219, 706 ("urodelen").
 1919 A, 324
 1920 A, 316
 1921 A, 144 ("urodelen")
 Agassiz, W. E. 1906 A, 54 ("urodeles").
 Althaus, F. 1896 B, 7 ("urodelen")
 Allen, E. P. 1915 A, 616
 1923 A, 48
 Altmann, I. 1925 A, 88 ("urodelen").
 Anderson, R. J. 1912 D, 251.
 Anthony R. 1912 A ("urodèles").
 1913 A, 241 ("urodèles")
 Anthony and Vallors 1914 A, 219 ("urodèles")
 Auldt, T. 1907 D, 687
 1912 A, 668, 678
 1916 A, 101 ("urodelen")
 Baird S. F. 1850 B, 281, 283.
 Barabdi, G. 1877 A, *passim* ("urodèles")
 Bardeleben, K. 1889 A, 107 ("urodelen").
 1889 B, 259
 1896 A, 114 ("urodelen").
 1903 A, 23 ("urodelen").
 1904 A, 109 ("urodelen").
 Bau, G. 1887 H, 47 ("urodelen").
 Beer, G. R. 1906 A, 307.
 Bender, O. 1927 A, 39 ("urodelen").
 Bever, H. 1907 A, 267 ("urodelen").
 Blainville, H. M. D. 1817 A, 107 ("reptiles nudes").

- Berg, J. E. V. 1914 B, 553 ("urodelen")
 1914 C 2-6 ("urodelen")
 Bonaparte C. L. 1832 A, 319
 Boulenger G. A. 1902 F, 383 (Caudata)
 Brauer A. 1914 A, 281
 Brans, H. 1906 A, 238 ("urodelen").
 Budge T. W. 1878 A, 725
 Brodh, I. 1913 D, 351 ("urodelen")
 Carter J. T. 1905 A, 129, 140
 Carter, O. 1875 A, 73 ("urodelen").
 Carius V. 1875 A, 481
 Case, E. C. 1911 B, 14, 68.
 1915 A, 97.
 Cope, E. D. 1885 BB, 65.
 1885 DD, 307
 1891 N, 28, 31.
 Covey R. F. 1909 A, 582
 Cunningham and Boulenger 1912 A, 161, 211
 Dana, J. D. 1863 A, 1 ("tailed batrachians")
 Davidson, A. 1895 A, 407
 DeSman, H. C. 1921 A, 155
 Dollo, L. 1884 D, 86 (Urodela).
 1885 C, 303 ("urodèles")
 Dombrowski, B. A. 1925 A, 72 ("urodelen")
 Dracut L. 1902 A, 435 ("urodelen")
 1904 A 273 ("urodelen").
 1904 B, 361 ("urodelen")
 1906 A, 7 ("urodelen")
 Dunn E. R. 1922 A, 418 (Caudata)
 Elmer, V. 1896 A, 146 ("urodelen").
 Edgeworth, F. H. 1920 A, 128.
 1925 A, 225.
 Erler, P. 1895 A, 56 ("urodelen")

- Elliott, A. I. M. 1907 A, 648 ("urodeles").
 Emery, C. 1890 A, 287 ("urodelen").
 1895 A, 221 ("urodeles").
 1897 D, 602 ("urodelen").
 Fejérváry, G. J. 1920 A, 362 ("urodèles").
 1925 A, 177 ("urodelen").
 Frassetto, F. 1915 A ("urodel").
 Fuchs, H. 1907 C, 8 ("urodelen").
 1909 B, 123, 148 ("urodelen").
 1909 D, 8, 76 ("urodelen").
 1910 A, 39 ("urodelen").
 1911 A, 34 ("urodelen").
 1911 B, 401 ("urodelen").
 1912 D, 153 ("urodelen").
 Furbinger, M. 1902 A, 200 ("urodelen")
 Gadow, H. 1901 B, 11, 94
 1902 B, 355.
 1905 A, 200.
 1914 A, 506 ("urodeles").
 Gaupp, E. 1891 B, 110 ("urodelen").
 1895 A, 57, seq ("urodelen")
 1899 A, 1034, 1038 ("urodelen").
 1900 A, 571 ("urodelen").
 1901 B, 944 ("urodelen").
 1902 A, 224 ("urodelen").
 1905 A, 286 ("urodelen").
 1905 D, 936 ("urodelen").
 1906 A, 24 ("urodelen").
 1906 B, 688 ("urodelen").
 1911 A, 401 ("urodelen").
 1911 B, 115 ("urodelen").
 1911 C, 437 ("urodelen").
 1913 A, 23 ("urodelen").
 Gebhardt, F. A M W 1907 A, 78 ("urodelen")
 Gegenbaur, C. 1870 A, 336 ("urodelen").
 Gelderen, C. 1922 A, 234.
 1923 A, 15
 1925 A, 501.
 Gervais, P. 1859 A, 497 ("urodèles").
 Geppert, E. 1896 B 3, fig 2 ("urodelen")
 Goette, A. 1879 A, 143 ("urodelen").
 Goodrich, E S 1911 A, 101
 Gottlieb, H. 1914 A, 195 ("urodelen").
 Gregory, W. K. 1912 D, 220 ("urodeles").
 1915 D, 365
 1917 B, 316 (Caudata).
 1925 A, 501
 Gregory and Adams 1915 A, 763 ("urodeles").
 Grote, A. 1926 A, 458 ("uroden").
 Haeckel, E. 1868 A, 449 (Sozara)
 Hasse, C. 1892 C, 1 ("urodelen").
 1893 B, 537 ("urodelen").
 Hatschek, B. 1889 A, 86 ("urodelen").
 1889 B, 116 ("urodelen").
 Heilprin, A. 1887 A, 306.
 Hertwig, O. 1874 B, ("urodelen").
 Higgins, G. M. 1920 A, 293.
 Hilzheimer, M. 1913 A, 475 ("urodeles").
 Hoeven, J. v. d. 1866 A, 364.
 Hoffmann, C. K. 1878 B, 615.
 Howes, G B. 1893 B, 272.
 Howes and Swinnerton 1901 A, 17.
 Huene, F. 1909 D, 333
 1922 G, 454 ("urodelen")
 1926 A, 265.
 Huxley, T. H. 1875 D, 24.
 1879 A, 400 ("urodeles").
 Ihering, H. 1880 A, 299 ("urodelen").
 Iwanzoff, N. 1894 A, 579 ("urodelen").
 Jacobshagen, E. 1920 A, 91 ("urodelen").
 Jaekel, O. 1909 A, 194 ("urodelen").
 1911 A, 129
 Johnson, A. 1883 A, 406.
 Kapelkin, W. 1900 A ("urodelen")
 Kehrer, F. A. 1896 A, 352 ("urodelen").
 Kerr, J. G. 1900 A, 233
 1901 A, 694 ("urodeles")
 1902 A, 424 ("urodeles")
 1910 A, 204 ("urodeles")
 Kingsbury, B F 1903 A, 313.
 Kingsbury and Reed 1908 A, 81-91, text-figs. 1-7.
 King-ley, J S. 1900 A, 205, 209 ("urodeles").
 1901 B, 337
 1902 B, 323.
 1925 A, 38, 122, 279
 Klaauw, C J 1924 B, 573
 Klein, E E. 1868 A (Caudata)
 Kostlin, O. 1844 A ("geschwanzte")
 Koken, E. 1898 B, 143
 Kravetz, L. 1906 A 6
 1911 A, 360 ("urodelen").
 Lakjer T. 1927 A, 201 ("urodelen")
 Lavocat, A. 1885 A, 34 ("urodèles")
 Lebedinsky, N G 1917 A, 316 ("urodeles")
 Lebourcq, H. 1884 A, 85 ("urodèles")
 Leche, W. 1887 A ("urodelen")
 Leunis and Ludwig 1883 A, 623
 Leydig, F. 1887 A, 538 ("urodelen")
 Lonnberg, E. 1910 A, 4.
 Lubosch, W E. 1908 A 196 ("urodelen")
 Meckel J F. 1825 A ("geschwanzte")
 Mivart, St. G. 1871 B, 370 ("tailed batrachians")
 Moodie, R. L. 1908 B, 361, 366 (Caudata).
 1909 C, 118.
 1909 D, 243 (Caudata, Euamphibia, in part)
 1909 F, 220 (Caudata; Euamphibia, in part).
 1912 A, 278 (Euamphibia, in part).
 1912 B, 287 (Caudata)
 1912 D, 326 (Caudata, Euamphibia, in part)
 1915 F, 189, 190 (Caudata)
 1915 H, 638
 1916 A, 45, 49 (Caudata, Euamphibia, in part); 45, 69 (Caudata)
 Murray, J. A. 1897 A, 661
 Nauck, E T. 1923 A, 15, figs 2, 3
 Noble, G. K. 1921 A, 1 ("salamanders")
 1922 A, 50, 57, table 1 (Caudata)
 1925 C, 1
 Nopcea, F. 1923 E, 1049, 1056.
 1926 A, 643.
 Okajima, K. 1908 A, 351 (Onychodactylus).
 Oppel, C A 1811, Ordn Rept, 72 (Caudata).
 Oswald, F. 1911 A, 405 ("urodeles").
 Parker, W K. 1877 B, 529
 1879 C, 332, 339 ("urodeles").
 1887 B, 53 ("urodeles")
 Parker and Haswell 1897 A, 272
 Pehrson, T. 1922 A
 Perrin, A. 1896 A, 90 ("urodèles")

- Perrin, A 1899 A, 521 ("urodèles").
 Peter, K. 1898 A ("urodelen").
 Petronievics, B 1921 A, 107 ("urodèles").
 Pompecky, J. F. 1912 A, 338, 344 ("urodelen")
 Puccioni, N 1908 A, 56 ("urodeln")
 Rabl, C. 1901 A, 496 ("urodelen").
 1903 A, 157 ("urodelen").
 Reed, H D 1920 A, 325
 Reynolds, S H 1897 A, 134, 169, 174, 182, 184, 187.
 Rose, C 1894 C, 178-192 ("schwanzmolche").
 Romer, A. S. 1922 B, *passim* ("urodeles")
 Sabatier, A. 1896 A, 125 ("urodèles").
 1897 B, 933 ("urodèles")
 1902 A, 99 ("urodèles").
 Schausmsland, H 1906 A, 488 ("urodelen").
 Schmalhausen, J J 1916 B, 138
 1917 B, 134
 Schones, G 1902 A, 8 ("urodelen")
 Schuehert, C. 1915 A, 800
 Schwarz, H 1908 A, 326 ("urodelen")
 1908 B, 102 ("urodelen")
 Seeley, H G 1876 C, 185
 1888 I, 235 ("urodeles").
 Sewertzoff, A 1896 A, 207.
 1904 A, 484
 1908 A
 1926 D, 75 ("urodelen")
 Seydel, O 1899 A ("urodelen")
 Shirkov, B M 1899 A 246 ("urodelen")
 Shore, T W 1887 A, 366 ("urodeles").
 Sollas, W J 1920 A, 484, 524 ("urodeles")
 Somes, F 1907 A, 405 ("urodelen").
 Spencer, W B 1886 A, 173 ("urodeles")
 Stadtmuller, F 1925 A, 149-225 ("urodelen")
 1926 A, 158 fig 5 ("urodelen")
 Stemer, H 1921 A, 514 ("urodelen")
 1922 A, 328
 Stejneger, L 1907 C, 2 (Caudata)
 Stejneger and Barbour 1917 A, 5 (Caudata).
 Stohr, P. 1880 A, 477.
 Stromer, E 1912 A, 56.
 Suchkin P P. 1910 A, 241
 1927 A, 275 ("urodelous amphibians").
 Taschenberg, O. 1894 A, 3531.
 Terra, P. 1911 A, 222 (Caudata)
 Thevenin, A. 1910 A, 37 ("urodèles")
 Thyng, F. W. 1906 A, 40
 Ussow, S 1900 A, 226.
 Van Gelderen, C 1925 A, 505 ("urodelen")
 Versluys, J. 1912 B, 566 ("urodelen").
 1912 C, 314
 1925 B, 182.
 Vialleton, L. 1917 A, 190 ("urodèles").
 Villiers C G S 1922 A ("urodelen")
 Virchow, H 1914 C, 132 ("urodelen").
 Vitali, G 1909 A, 208 ("urodeln")
 Wagner, R. 1843 A, 146
 Wallace, A R. 1876 A, ii, 411.
 Watson, D M S 1914 D 168 ("urodeles")
 1916 C, 632 ("urodeles")
 1917 A, 982 ("urodeles").
 1917 B, 57 ("urodeles")
 1919 B, 58 ("urodeles").
 1926 A, 190, 200
 Wegner, R. N 1922 A, 417 ("urodelen")
 Weitzel, A. 1865 A, 318 ("geschwanzte").
 Wilder, I W. 1920 A, 349 ("urodeles").
 Williston, S W 1910 D, 534 (Caudata)
 1912 B, 660
 1916 B, 211 (Caudata)
 Winslow, G M 1898 A, 148.
 Wintrebert, P 1910 A, 1081 ("urodèles")
 1910 B, 78, 131, 172 (urodèles").
 Woodward, A S 1898 B, 139
 Zittel and Broili 1911 A, 174
 1923 A, 204.
 Zittel, Eastman, etc. 1902 A, 135.

Suborder PROTEIDA Cope.

- Cope E D 1866 F, 102
 Arlitt, T 1916 A, 95, 105 ("proteiden")
 Blainville, H M D 1835 A, 281 ("protées")
 Cope E D. 1885 DD 305
 1889 D, 13, 21
 1891 N, 31
 Dol'0 L 1884 D 86
 Dunn, E R 1922 A, 425, 427
 Hogg, J 1841 A, 355 (Proteida).
 Huxley, T. H 1872 A, 150 (Proteida).
 1875 C, 759, 770 (Perennibranchiata).
 Moodie, R L. 1916 A, 67
 Muller, J. 1832, Isis, 504 (Proteidea).
 Stannus, H 1856 A, 4 seq. (Proteida)
 Stejneger and Barbour 1923 A, 1
 Tschudi, J. J 1839 A, 26, 96 (Proteidæ).
 The Proteidea of Muller is a heterogeneous group containing *Proteus* *Axolotl*, *Monobranchus* (*Necturus*), and *Siren*

COCYTINIDÆ.

- Cope, E. D 1875 X, 12.
 Hay, O P 1902 A, 415 (Tudtamidæ, part).
 Gregory, W K 1917 B, 313 (Coccytinidæ), 316 (Coccytinidæ)
 Moodie, R L 1912 D, 326
 1916 A, 67

COCYTINUS Cope. Type *C. gyrrinoides* Cope.

- Hay, O P. 1902 A, 416.
 Broili, F 1908 F, 60
 Case, E C. 1917 A, 134
 1919 B, 200.
 Gregory, W K. 1917 B, 315 (Coccytinus).
 Moodie, R. L. 1916 A, 67.
 Schwarz, H. 1908 B, 70, 91.
 Coccytinus *gyrrinoides* Cope.
 Hay, O. P 1902 A, 416
 Moodie, R. L. 1912 D, 328.
 1914 A, 16
 1916 A, 68, figs. 16, 16a.
 Pennsylvanian (Linton); Ohio.

ERIERPETON Moodie. Type *E. branchialis* Moodie.

Moodie R L 1912 D, 328.

1916 A, 69

Erierpeton branchialis Moodie.Moodie, R L. 1912 D, 326, 329, pl. 1, fig. 3,
pl. 11, fig. 1.

Moodie, R L. 1912 A, 278.

1914 A, 18.

1916 A, 70, pl. 11, fig. 4, text-fig. 15.
Pennsylvanian (Mazon Creek), Illinois.HYPHASMA Cope. Type *H. laevis* Cope.

Hay, O P. 1902 A, 416.

Broth, F 1908 F, 59.

Case, E C 1917 A, 134.

1919 B, 200

Moodie R L 1908 F, 255

1916 A, 70

Hyphasma laevis Cope.

Hay, O P 1902 A, 416

Band S F 1876 A, ecci.

Moodie, R L 1914 A, 20.

1916 A, 71.

Pennsylvanian (Linton), Ohio

Suborder MEANTES Linnæus.

Linnaeus, C 1766, Syst Nat ed xii, pt 2, signi-
ficat 5, Addenda

Cope E D 1885 BB, 67 (Trachystomata).

1889 D, 13, 223 (Trachystomata)

Dunn, E R 1922 A, 427.

Hoffmann C K 1878 B, 674 (Ichthyoidea, in
part).

Huxley T H 1875 C 771 (Trachystomata).

Stamm H 1856 A, 4 seq (Trachystomata).

Strogon and Barbour 1917 A, 24

1923 A, 21.

Superfamily SIRENOIDE, new name.

SIRENIDÆ Bonaparte.

Bonaparte C L 1831 A, 69

Amalitsky, V P. 1924 A, 62 (Ichthyoides)

Anton, W 1911 A, 179 ("sirenden")

Ardt, T 1907 D, 681.

1916 A, 106 ("sirenden").

Bauer, G 1885 M

Bischoff, T L W 1840 A, 3 ("sirenes").

1840 B 118 (sirenes)

Blainville H M D 1835 A 282 (Sirena).

Bonaparte, C L 1832 A, 319

1833 B 186

Boulenger, G A. 1882 A, 86.

Brauer A 1914 A, 284

Cope, E D 1875 X, 12, 24.

1889 D, 223

1891 N, 31

Cunningham and Boulenger 1912 A, 164, 169,
170

Dunn E R 1922 A, 422, 427.

Fajérány, G. J 1920 A, 352

Gadow, H 1901 B, 136

Gill, F 1885 B 18

Gray, J E 1850 A, 67

Hoffmann, C K 1878 B 615, 676

Hogg J 1839 A, 274, 375, 376

1841 A, 362

Kingsbury, B F 1895 A, 131.

Kriessmann, M 1912 A, 399 ("sirenden")

Lubbock, J L 1905 A 203

Noble, G. K 1922 A, 61.

1924 A, 100

1925 C 2

Owen, R 1866 A, 15 (Protoda)

Palacky J 1899 B 1 ("sirenden")

Pompeck J F 1912 A 344

Reed H D 1920 A 356

Schmidhausen J. J 1916 B, 144

Terra P 1911 A, 223

Wallace, A R 1876 A, n. 411

Wintrobent P. 1910 B, 173.

SIREN Linnæus. Type *S. lacertina* Linn.Linnaeus C 1766, Syst Nat Ed 12 I n, signi-
ficat 11, Addenda

Abel, O 1912 F, 414.

Ardt, T. 1916 A, 106.

Bard, S. F 1850 B, 291.

Bardleben K. 1903 A, 25.

Boulenger, G A. 1882 A, 86.

Brandt, F. 1865 A, 15.

Carlsson, A. 1886 A, 8.

Carius, V. 1875 A, 484.

Cope, E. D. 1875 D, 361.

1885 CC, 1226

1885 G, 245 ("sirens").

1899 D, 225.

1900 A, 1214, 1219.

Cuvier, G 1805 A.

Cuvier G 1834 A (1836) x, 332

Dumer, L 1904 B, 389

Dunn, E R 1922 A, 420

1924 A, 145

Edgeworth F H 1925 A, 231.

Gadow H 1901 B, 136

Gaupp, E 1913 A, 83.

Gabel, C G 1855 A, 99, pl. xlii, fig. 10

Gill T 1886 C 796

Goepfert, E. 1896 B, 13, pl. 1, text-figs. 13, 14

Gray, J. E 1850 A, 68

Hase, C 1873 B, 614, 616

Hase and Schwarcz 1870 A, 49.

Helgum, A. 1887 A, 306, 311.

Hertwig, O. 1874 B.

Hoever, J v d. 1866 A, 365.

- Hoffmann, C. K. 1874 A, 8, 23, 24.
1878 B, 676, pls vi, vii.
Hogg, J. 1839 A, 370.
Huxley, T. H. 1863 F, 428.
1872 A, 156, seq.
1874 B, 2, 9.
1875 C, 751-770.
Kingsbury, B. F. 1895 A, 131, pl. iii, figs 30, 31
Kingsbury and Reed 1909 A, 598.
Kingsley, J. S. 1925 A, 53, 262, fig. 57.
1902 B, 327, 329.
Klaauw, C. J. 1924 B, 576.
Kostlin, O. 1844 A.
Kriessmann, M. 1912 A, 399.
Leunis and Ludwig 1883 A, 630.
Meckel, J. F. 1825 A.
Mivart, St. G. 1870 A, 262
Noble G. K. 1925 C, 3
Norm, H. W. 1913 A, 516
1913 B, 245
Owen, R. 1845 B, 188.
1848 B, 125.
1866 A, 47, 179, 391.
1868 A, 906
Parker, W. K. 1877 B, 572.
1882 C, 186.
Petri K. 1898 A, 584.
Rabl, C. 1901 A, 511, pl. xxiii.
Reed, H. D. 1920 A, 356, pl. v.
Reynolds, S. H. 1897 A, 135, 168, 169, 174, 180, 187
Schmalhausen, J. 1917 A, 106.
Sollis, W. J. 1918 A, 239.
Stannus, H. 1856 A, 4, seq.
Sutton, J. B. 1881 A, 567.
Tschudi, J. J. 1839 A, 69.
Vaillant, L. 1863 A, 294.
Versluys, J. 1912 C, 314.
Wagner, R. 1843 A.
Wallace, A. R. 1876 A, ii, 411.
Wiedersheim, R. 1877 B, *passim*.
Wildor, H. H. 1891 A, 653.
Siren lacertina Linnaeus.
Linnaeus C. 1766, Syst. Nat. Ed. 12, I, n. sign.
Rat., Addenda
Allis, E. P. 1898 A, 453.
Anthony and Vallois 1914 A, 224, figs. 2, 18.
Anton, W. 1911 A, 191, pls. iv, v
Baird, S. F. 1850 B, 291.
Bischoff, T. L. W. 1840 A, 3 ("sirene").
1840 B, 119 ("sirene")
Boulenger, G. A. 1882 A, 87.
Cope, E. D. 1875 D, 361, fig. 6.
1885 CC, 1227.
1885 DD, 366, fig. 175.
1889 D, 226 pls. xliii, xlv; text-fig. 57.
1900 A, 1214, 1219
Cunningham and Boulenger 1912 A, 164, pl. xiv.
Cuvier, G. 1825 A, v, 2, 417, pl. xxvii.
1827 A, 1 ("sirene lacertine").
1834 A (1836), x, 332
Drumer, L. 1904 B 648, figs S, T.
Eimer, G. H. T. 1901 A, 21, 28.
Gadow, H. 1901 B, 136, fig. 27.
Gamp, E. 1905 D, 955
Gray, J. E. 1825 A, 216.
1850 A 68
Hav, O. P. 1917 E, 43.
1923 A, 382
Hertwig, O. 1874 B, 14, pl. i, fig. 6.
Kingsbury and Reed 1909 A, 598, pl. ix
Kriessmann, M. 1912 A, 399, pl. xvii; text-figs 1-16
Lubosch, W. 1911 B, 711
Mivart, St. G. 1870 A, 262, figs. 2, 3, 8, 9, 11, 14, 18
Nopce, F. 1923 G, 147.
Norm, H. W. 1913 A, 516
1913 B 215, figs 1-11
Owen, R. 1845 B, 188, pl. lxx, figs. 5, 6
1848 B 125
1866 A, 47
Palucki, J. 1899 B, 6
Parker W. K. 1882 C 187 190, pl. xxxviii, figs 5, 6; pl. xxxix, figs 1-3
Rose, C. 1891 C, 180, figs 6-8
Stejneger and Barbour 1917 A, 24.
Vaillant, L. 1863 A, 294, pls. vii-ix.
Wiedersheim R. 1877 B, *passim*, pl. i, figs 10-13, pl. ii, figs 18-20
Wildor, H. H. 1891 A, 653 pls. xxxix, xl
Recent, southern States to Indiana and Peoria, Illinois. Pleistocene; Florida.
Suborder MUTABILIA Merrem.
Hoffmann, C. K. 1878 B, 674 (Ichthyodea, m. part)
Huxley, T. H. 1872 A, 150, 154 (Salamanndidae)
1876 F, 169 (Caducibranchiata).
Parker and Haswell 1897 A, 272 (Deiotremata).
Stejneger, L. 1907 C, 3
Stejneger and Barbour 1917 A, 6.
1923 A, 2.
Merrem, B. 1820, Syst. Amphib., 166.
Bouparte, C. L. 1831 A, 77 (Urodela).
Cope, E. D. 1866 F, 102 (Caducibranchiata).
1889 D, 303 (Pseudosauria, Trematodea, Amphumioidea).
1889 R, 861 (Pseudo-sauria).
Drumer, L. 1904 B, 362 ("caducibranchiaten")
Dunn, E. R. 1922 A, 426 (Mutabilia, Salamandroiden).
Superfamily AMPHIUMOIDÆ, new form.
Cope E. D. 1889 D 33 (Amphumioidea, Trematodea).
Stejneger, L. 1907 C, 3 (Amphumioidea)
Williston, S. W. 1908 D, 237, 240.
Abel, O. 1919 A, 326 (Paterosauridae).
Amalitsky, V. P. 1924 A, 62.
Arlt, T. 1912 A, 656 (Paterosauridae).
1916 A, 102, 143 ("lysorophiden").
Broil, F. 1904 A, 99 (Paterosauridae).

LYSOROPHIDÆ Williston.

- Broili, F. 1904 D, 537 (Paterosauridae)
1908 E, 295 (Paterosauridae).
Case, E. C. 1911 B, 14, 68, 84, 141.
1915 A, 97.
Huene, F. 1913 B, 374.
1913 G, 505.
1926 A, 262.
Moodie, R. L. 1909 C, 116
Pompeckj, J. F. 1912 A, 339, 344 (Lysorophidae,
Paterosauridae).

LYSOROPHUS Cope. Type *L. tricarinatus* Cope.

- Hay, O. P. 1902 A, 433.
Abel, O. 1920 A, 354.
Amalitsky, V. P. 1921 A, 9.
1924 A, 57.
Arditt, T. 1912 A, 656.
1916 A, 102.
Broili, F. 1904 A, 80, 94, 98, text-fig 5.
1904 D, 586
1908 B, 269.
1908 E, 290.
1913 A, 98
1913 B, 520.
1913 D, 350.
Broom, R. 1910 A, 214.
1918 A, 232
Case, E. C. 1902 C, 257
1908 A, 531.
1911 B, 14, 68, 84, 141.
1912 A, 203.
1915 A, 131, 132
Drevermann, F. 1920 A, 101.
Finney, M. 1912 A, 664.
Gilmore, C. W. 1927 G, 11.
Gregory, W. K. 1917 B, 315.
Huene, F. 1913 B, 322, 372, 377.
1913 C, 389
Jaekel, O. 1909 A, 210
Kingsley, J. S. 1925 A, 128, fig. 135.
Matthew, W. D. 1923 B, 109.
Mehl, M. G. 1912 C, 408
Moodie, R. L. 1909 C, 117.
1911 C, 382
1912 D, 328.
1915 G, 370, 373.
Pompeckj, J. F. 1912 A, 339, 342, 346.
Sollas, W. J. 1918 A, 239, figs. 4, 5.
1920 A
Steinmann, G. 1908 A, 210.
Stromer, E. 1912 A, 56
Watson, D. M. S. 1917 C, 170.
Williston, S. W. 1908 D, 230.
1908 F, 317.
Sollas, W. J. 1918 A, 239, figs. 4, 5
1920 A, 482.
Stromer, E. 1912 A, 56 (Paterosauridae).
Williston, S. W. 1908 F, 317 (Paterosauridae).
1910 D, 534
1916 B, 211
Zittel and Broili 1911 A, 217 (Paterosauridae).
1923 A, 265, 379, 383 (Paterosauridae).
- Williston, S. W. 1909 A, 394
1909 E, 194.
1912 B, 660
1912 F, 92
1913 A, 825.
1914 C, 59
1915 A, 578
1916 B, 211 fig 54
Zittel and Broili 1911 A, 218.
1923 A, 266

Lysorophus tricarinatus Cope.

- Hay, O. P. 1902 A, 433.
Abel, O. 1919 A, 326, figs 249-251.
1920 A, 354, figs 561, 562
Broili, F. 1904 A, 94, pl. xu, figs 1-10
1904 D, 586, figs. 12-14
1908 E, 291, figs. 1, 2.
1913 A, 100
1913 B, 520.
Broom, R. 1918 A, 232, figs. 1-3
Case E. C. 1900 A, 714, pl. ii, fig 12
1902 A, 45, pl. ix, figs. 1, 2
1902 C, 256, pl. i, fig 1.
1908 A, 531, fig. 1.
1911 B, 68, 141, text-figs 47, 48
1915 A, 97, 125, text-fig 13.
Cope and Matthew 1915 A, pl. iii, figs 19, 20
Huene, F. 1913 B, 322, figs 7-10.
1913 C, 393, figs 1-5.
Jaekel, O. 1909 A, 208 figs. 14, 15
1911 A, 127, fig 142
Moodie, R. L. 1909 C, 117.
1914 A, 21.
Pompeckj, J. F. 1912 A, 338, fig. 1.
Sternberg, C. H. 1909 C, 258
Williston S. W. 1908 D, 229, 230, text-figs. 1-3.
1908 F, 316.
Zittel and Broili 1911 A, 218, fig 357.
1923 A, 265, fig. 373.
Permian (Wichita); Texas: Pennsylvanian
(Upper); Illinois.

AMPHIUMIDÆ Gray.

- Gray, J. E. 1825 A, 216.
Abel, O. 1919 A, 330.
Arditt, T. 1907 D, 637.
1916 A, 104 ("amphiumiden").
Bonaparte, C. L. 1833 B, 1186.
Boulenger, G. A. 1882 A, 80.
Cope, E. D. 1866 F, 104 (Amphiumidae), 105
(Protonopsidae).
1869 B, 152.
1875 X, 12.
1885 DD, 308.
1886 X, 442.
Cope, E. D. 1889 D, 213
Cunningham and Boulenger 1912 A, 163, 169, 170
Dunn, E. R. 1922 A, 422, 426.
Gadow, H. 1901 B, 97.
Gill, T. 1885 B, 18
Gray, J. E. 1850 A, 54.
Hoffmann, C. K. 1878 B, 615, 675.
Huxley, T. H. 1875 C, 770 (Amphiumida).
Kingsbury, B. F. 1895 A, 130.
Kingsley, J. S. 1892 A, 674.
1892 B, 329.
Lobley, J. L. 1908 A, 203.

Lydekker, R. 1890 A, 137.
 Noble, G. K. 1922 A, 62 ("amphiumids").
 Owen, R. 1868 A, 860 (Amphiuma)
 Palacký, J. 1899 B 1 ("amfiunen")
 Reed, H. D. 1920 A, 350, 371.

Ryder, J. A. 1879 C, 14
 Schmalhausen, J. J. 1916 B, 144.
 Terra, P. 1911 A, 223.
 Wallace, A. R. 1876 A, ii, 412

AMPHIUMA Garden. Type *A. means* Garden.

- Garden, A.* 1821, in Smith's Correspondence of
 Linnaeus, i, 599
 Abel, O. 1912 F, 414.
 Adams, L. A. 1919 A, 86, pl. v.
 Aildt, T. 1916 A, 104
 Baird, S. F. 1850 B, 290
 Baudeleben, K. 1901 A, 31
 1903 A, 25
 Baur, G. 1885 M
 1897 D, 42
 Boulenger, G. A. 1882 A, 82.
 Carus, V. 1875 A, 483
 Cope, E. D. 1866 F, 104
 1869 B, 152
 1875 D, 361.
 1885 G, 245 ("amphiuma")
 1885 DD, 309
 1886 X, 442.
 1889 D, 215.
 Cuvier, G. 1827 A, i.
 Davidson, A. 1895 A, 375.
 1897 A, 6, figs. 1-7.
 Dunn, L. 1901 B, 374
 Dunn, E. R. 1922 A, 420, 422.
 1924 A, 145
 Edgeworth, F. H. 1920 A, 128
 1925 A, 231.
 Emer, G. H. T. 1901 A, 256
 Field, H. H. 1895 A, 340, pl. xiii, figs. 16, 18-21.
 Gadow, H. 1896 A, 10
 1901 B, 100.
 Gaupp, E. 1899 A, 1041.
 1905 D, 959
 1906 B
 Gobel, C. G. 1855 A, 98, pl. xlii, fig. 4
 Gray, J. E. 1825 A, 217
 1850 A, 55 (Amphiuma, Muraenopsis).
 Gregory and Adams 1915 A, 763.
 Hay, O. P. 1888 A, 315
 1889 A, 286
 1890 A, 11.
 Heilprin, A. 1887 A, 306, 311.
 Hertwig, O. 1874 B, 17.
 Higgins, G. M. 1920 A, 296
 Hoeven, J. v. d. 1866 A, 367, 375
 Hoffmann, C. K. 1874 A, 8, 18, 24, 30
 1878 B, 675, pls. vi, vii, xv.
 Hogg, J. 1839 A, 370
 Howes, G. B. 1893 B, 278.
 Huxley, T. C. 1872 A, 157 seq.
 1874 B, 9, 12.
 1875 C, 758.
 Kingsbury, B. F. 1903 A, 331.
 Kingsbury and Reed 1908 A, 82.
 1909 A, 596.
 Kingsley, J. S. 1892 A, 671.
 1897 A, 436.
 1900 A, 211
 1901 B, 337. 1902 A.
 Kingsley, J. S. 1902 B, 323
 1912 B, 82, fig. 82.
 1925 A, 124, fig. 131
 Kingsley and Ruddick 1889 A, 219
 Klauw, C. J. 1924 B, 577.
 Kostlin, O. 1844 A.
 Kravetz, L. 1911 A, 360
 Kressman, M. 1912 A, 426
 Leunis and Ludwig 1883 A, 629.
 Meyer, H. 1860 E, 50
 Mivart, St. G. 1870 A, 262
 Nopcsa, F. 1923 G, 124, 147
 Norris, H. W. 1903 A, 69.
 1908 A, 527
 1913 A, 517.
 Owen, R. 1845 B, 190
 1848 B, 102, 125, 199, pl. ii
 1866 A, 5, 163, 170, 182, fig. 101.
 1868 A, 860
 Parker, W. K. 1882 D, 209.
 Parker and Haswell 1897 A, 274, fig. 888
 Peter, K. 1894 A, 569, 597
 Rabl, C. 1901 A, 509, pl. xxiii
 Reed, H. D. 1920 A, 351, pl. iii, text-figs. 15, 16
 Reynolds, S. H. 1897 A, 135, 174, 187, 188.
 Ryder, J. A. 1879 C, 14 (Amphiuma, Muraenop-
 sis)
 1887 A, 365
 Schaunstein, H. 1906 A, 498
 1916 A, 110.
 Sallas, W. J. 1920 A, 499
 Stannius, H. 1856 A, 4, seq.
 Thyng, F. W. 1906 A, 47, fig. D.
 Van Pee, P. 1903 A, 37, figs. 1-5
 1904 A, 476
 Versluys, J. 1912 C, 314
 Wagner, R. 1843 A
 Watson, D. M. S. 1916 C, 632.
 Wiedersheim, R. 1877 A.
 1877 B, *passim*
 1902 A, 47, pl. vi, fig. 4
 Winslow, G. M. 1898 A, 149, 180.
- ### Amphiuma means Garden.
- Garden, A.* 1821, in Smith's Correspondence of
 Linnaeus, i, 599 (descrip. 333).
 Anton, W. 1911 A, 184
 Baird, S. F. 1850 B, 290 (A. means, A. tri-
 dactylum)
 Boulenger, G. A. 1882 A, 82 (A. tridactyla);
 83 (A. means)
 Cope, E. D. 1875 D, 353, fig. 1.
 1885 DD, 308.
 1886 X, 442, pl. vi.
 1889 D, 216, pl. ix, fig. 7; pl. x; pl. xi, figs.
 2-9; pl. xii; pl. xiii, fig. 5; text-figs.
 55, 56
 Cunningham and Boulenger 1912 A, 163, pl. xiv.
 Cuvier, G. 1825 A, v, 2, 419, pl. xxvii.

- Cuvier, G. 1827 A, 4, pl. 1, figs. 1-3, pl. n, figs. 1-8, 15-18 (A means), 7, pl. 1, figs. 4-6, pl. n, figs. 9-14 (A tridactylum).
 Davidson A. 1895 A, 375, pls. xxiii, xxiv.
 Druner, L. 1904 B, 628, pl. xxiii (A. tridactylum).
 Edgeworth, F. H. 1925 A, 229 (A. tridactylum).
 Gadow, H. 1901 B, 100, fig. 18.
 Gray, J. E. 1825 A, 217.
 1850 A, 55 (A. means, *Muraenopsis tridactyla*).
 Hay, O. P. 1888 A, 315.
 1889 A, 286.
 1890 A, 11, pl. n.
 1917 E, 43.
 1923 A, 382.
 Holbrook, J. E. 1842, N. Amer. Reptiles, v, 89, pl. xxx.
 Kingsbury, B. F. 1903 A, 325.
 Kingsbury and Reed 1909 A, 596, text-figs. 18-21.
 Kingsley, J. S. 1892 A, 671.
 Mivart, St. G. 1870 A, 262, figs. 1, 4, 5, 7, 16, 17, 19.
 Morgan, T. H. 1903 A, 293.
 Norris, H. W. 1908 A, 527, pls. iv-viii.
 Owen, R. 1845 B, 191, pl. lxi, fig. 7 (A. means, A tridactylum).
 1866 A, 182 (A. tridactylum).
 Palacký J. 1899 B, 6 (Anfiuma).
 Rose, C. 1894 C, 180, figs. 3, 11.
 Shufeldt, R. W. 1883 D, 159, figs. 1-4 (*Muraenopsis tridactylus*).
 Wiedersheim, R. 1877 A, pls.
 1877 B, *placium* pl. 1, figs. 7-9, pl. n, fig. 17; pl. iv (A tridactylum).
 Wilder, H. H. 1891 A, 654 (A. tridactyla).
 Winslow, G. M. 1898 A, 164.
 Recent; Virginia to Florida and Louisiana: Pleistocene; Florida.

CRYPTOBRANCHIDÆ Cope.

- Cope, E. D. 1889 D, 33, 34, 36.
 Amalitsky, V. P. 1924 A, 62 (Ichthyoides).
 Bauer, G. 1885 M (Menopomidae).
 Bever, H. 1907 A, 268 ("menopomiden").
 Caus, V. 1875 A, 483 (Cryptobranchia).
 Dunn, E. R. 1922 A, 423, 424, 427.
 Hoffmann, C. K. 1878 B, 674 (Menopomidae).
 Hogg, J. 1839 A, 274, 374, 375 (Menopomatidae).
 1841 A, 355 (Derotremata).
 Kingsbury, B. F. 1895 A, 123.
 Kingsbury and Reed 1909 A, 591.
 Lobley, J. L. 1908 A, 203 (Menopomidae).
 Muller, J. 1832 A, 504 (Derotremata).
 Noble, G. K. 1922 A, 49, 61.
 1925 C, 1.
 Reed, H. D. 1920 A, 327, 366.
 Steneger, L. 1907 C, 3.
 Stejneger and Barbour 1917 A, 7.
 Terra, P. 1911 A, 223 (Menopomidae).
 Wallace, A. R. 1876 A, n, 412 (Menopomidae).
 Zittel, K. A. 1890 A, 418 (Cryptobranchia).

CRYPTOBRANCHUS Leuckart. Type *C. alleghaniensis* Daudin.

- Leuckart, C. G. F. R. 1821, Isis, Lit. Anz., 259.
 Adams, L. A. 1919 A, 85, pl. v.
 Altmann, F. 1925 A, 87.
 Antou, W. 1911 A, 184.
 Ardit, T. 1916 A, 104.
 Beel, G. R. 1926 A, 308.
 Bever, H. 1907 A, 268 (Menopoma).
 Boulenger, G. A. 1882 A, 81.
 Brown, H. G. 1838 A, 1166.
 Cope, E. D. 1866 F, 105 (Protonopsis).
 1875 D, 363 (Protonopsis).
 1889 D, 37.
 Druner, L. 1904 B, 374 (Cryptobranchus, Menopoma).
 Dunn, E. R. 1922 A, 419.
 Edgeworth, F. H. 1920 A, 128, figs. 32-56 (Menopoma).
 1923 B, 97, figs. 1-10 (Cryptobranchus, Menopoma).
 1923 C, 238, figs. 1-7 (Cryptobranchus, Menopoma).
 1925 A, 229, figs. 53-63 (Cryptobranchus, Menopoma).
 Emery, C. 1901 A, 673, fig. 12.
 Field, H. H. 1895 A.
 Fleissig, J. 1909 A, 48, figs. 1-5.
 Forbes, W. A. 1879 A, 364 ("menopoma").
 Frassetto, F. 1915 A, 16, 149, fig. 89.
 Gadow, H. 1896 A, 10, fig. 14 (Menopoma, Cryptobranchus).
 1901 B, 97.
 Gaupp, E. 1898 B, 866.
 1899 A, 1041 (Menopoma).
 1905 D, 931, 955, figs. 20, 21 (Cryptobranchus, Menopoma).
 1913 A, 85.
 Gubel, C. G. 1855 A, 98 (Menopoma).
 Gray, J. E. 1825 A, 217 (Albranchus).
 1850 A, 53 (Protonopsis).
 Gregor, W. K. 1920 A, 224.
 Harlan, R. 1825, Ann. Lyc. Nat. Hist. N. Y., 1, 270 (Menopoma).
 Hase, A. 1913 A, 149, fig. 71 (Menopoma).
 Hatcher, J. B. 1903 A, 20 (Menopoma).
 Hilprin, A. 1887 A, 306, 311 (Menopoma).
 Hertwig, O. 1874 B, 17 (Menopoma).
 Higgins, G. M. 1920 A, 294.
 Hoeven, J. v. d. 1866 A, 367, 371 (Menopoma, Cryptobranchus).
 Hoffmann, C. K. 1874 A, 17, 22, 24, 29 (Cryptobranchus, Menopoma).
 1878 B, 674, pls. i, n, vi-xiv (Menopoma, Cryptobranchus).
 Hogg, J. 1839 A, 370 (Menopoma).
 Holbrook, J. E. 1842 (1844), N. Amer. Rept., v, 95 (Menopoma).
 Howes, G. B. 1893 B, 271.
 Hurley, T. H. 1874 B, 9, 12 (Menopoma).
 1875 A, 40 (Menopoma).
 1875 C, 752-770, figs. 1-3 (Cryptobranchus, Menopoma).
 1877 A, 58 (Menopoma).

- Iwanzoff, N. 1894 A, 582 (Menopoma).
 Kesteven, H. 1916 A, 305
 1919 A, 224, fig. 2
 Kingsbury, B. F. 1895 A, 123.
 1903 A, 326
 Kingsbury and Reed 1909 A, 591.
 Kingsley, J. S. 1900 A, 211.
 1925 A, 263 figs 44, 132, 281, 302
 Klaauw, C. J. 1924 B, 574 (Menopoma)
 Kostlin, O. 1844 A (Menopoma).
 Kriessman, M. 1912 A, 426.
 Lakjer, T. 1927 A, 332 (Cryptobranchus, Menopoma).
 Leunis and Ludwig 1883 A, 629 (Menopoma, Cryptobranchus)
 Lohley, J. L. 1908 A, 214 (Menopoma).
 Lubusch, W. 1911 B, 741 (Menopoma)
 Lubsen, J. 1905 A, 432, figs 1-3
 Malbranc, M. 1875 A (Menopoma, Cryptobranchus).
 Mevel, H. 1860 E, 50 (Menopoma).
 Mivart, St G. 1870 A, 264 (Cryptobranchus, Menopoma)
 Mivart and Clark 1879 A, 524, text-fig. 5.
 Moode, R. L. 1907 A, 90 (Menopoma)
 1915 F, 189
 Noble, G. K. 1922 A, 47.
 1925 C, 1.
 Osawa, G. 1901 A, 225-427, pls. xi-liv.
 Owen, R. 1845 B, 191 (Menopoma, Sieboldia).
 1848 B, 50, 159 fig. 28 (Menopoma)
 1866 A, 48, 170, 390, figs 43, 265.
 Parker, W. K. 1877 B, 571 (Menopoma)
 1879 C, 335 (Menopoma)
 1882 C, 172, pls xxxvi xxxvii (Sieboldia)
 178 (Menopoma)
 1882 D, 208, 209 (Cryptobranchus, Menopoma)
 Parker and Bettanv 1877 A, 131 (Menopoma).
 Parker and Haswell 1897 A, 274
 Peter, K. 1899 A, 577, 584 (Menopoma)
 Pithonievies, B. 1921 A, 107 (Cryptobranchus).
 Rabl, C. 1901 A, 498, pl. xxvi (Cryptobranchus, Menopoma).
 Reynolds, S. H. 1897 A, 135, 175
 Roman, A. S. 1922 B, 562, 569.
 Schmalhausen, I. 1910 A, 439
 1917 B, 134 (Cryptobranchus, Menopoma)
 Schone, G. 1902 A, 8.
 Seeley, H. G. 1876 A, 175, 185 (Menopoma)
 Sewitzoff, A. N. 1908 A
 Shunada, K. 1911 A, 1-9, pls. i-iv.
 Sollas, W. J. 1916 A, 110
 1920 A, 518, 524.
 Stannius, H. 1856 A, 4, seq. (Menopoma).
 Steiner, H. 1921 A, 519.
 1922 A, 340
 Stejneger, L. 1901 A, 308
 Stejneger and Barbour 1917 A, 7.
 Taschenberg, O. 1894 A, 3536.
 Versluys, J. 1912 C, 323.
 Villiers, C. G. S. 1922 A, 166 (Menopoma).
 Wagner, R. 1843 A (Menopoma).
 Watson, D. M. S. 1916 C, 632.
 1917 B, 57.
 Wiedersheim, R. 1877 B, *passim*.
 1877 C, 152 (Menopoma, Cryptobranchus).
 Wiedersheim, R. 1880 D, 582 (Menopoma, Cryptobranchus)
 1892 A, 48, pl. vi, fig. 5 (Menopoma)
 Wiman, C. 1923 B, 275, fig. 3.
 Woodward, A. S. 1904 D, 142
 Zittel and Broili 1911 A, 176.
 1923 A, 205, fig. 311.
 Zwick, W. 1897 A, 65, fig. 2 (Menopoma)
- Cryptobranchus alleganiensis (Daudin).**
Daudin F. M. 1802 Hist. Nat. Rept., viii, 231 (Salmandia)
Anton W. 1911 A, 195 (Menopoma alleghaniensis)
Bever, H. 1907 A, 269 (Menopoma)
Boulenger G. A. 1882 A, 81 (C. alleghaniensis).
Cope, E. D. 1869 E, 178 ('Menopoma' This species?)
 1875 D, 363, fig. 8 (Protonopsis horrida)
 1875 X, 25 (Menopoma alleghaniensis)
 1885 DD, 308, fig. 177 (Protonopsis horrida)
 1889 D, 38, pls v-viii, text-fig. 5 (C. alleghaniensis)
Cunningham and Boulenger 1912 A, 163 (C. alleghaniensis)
Cuvier G. 1825 A, v, 2, 409, pl. xxxi (Salmandia gigantea)
Druyer, L. 1904 B, 443, pl. xiv, fig. 1, pls. xvi, xvii; text-fig. F (Menopoma alleghaniensis)
Gadow, H. 1901 B, 97, fig. 17 (C. alleghaniensis)
Gaupp E. 1899 A, 1041, fig. 4 (Menopoma alleghaniensis)
Gray J. E. 1825 A, 217 (Abrauchus alleganiensis)
 1850 A, 57 (Protonopsis horrida)
Hatcher J. B. 1903 A, 21, fig. 5 (Menopoma alleghaniensis)
Hoeyen J. v. d. 1866 A, 371 (C. alleghaniensis)
Holbrook J. E. 1842 (1844), N. Amer. Rept., v, 95, pl. xxxv (Menopoma alleghaniensis)
Kingsbury, B. F. 1895 A, 123, pl. v, figs 39, 40
Kingsbury and Reed 1909 A, 591, pls. vii, viii (C. alleghaniensis)
Low J. W. 1926 A, 913, figs 1-4 (Menopoma)
Mivart, St G. 1870 A, 264 (Menopoma)
Owen, R. 1845 B, 191, pl. lxxi, fig. 1 (Menopoma alleghaniensis)
Palacký J. 1899 B, 6 (C. alleghaniensis)
Parker, W. K. 1882 C, 178, pl. xxxviii, figs 1-3, pl. xxxix, figs. 4-6 (Menopoma alleghaniensis)
Pompeck, J. F. 1912 A, 341
Reese A. M. 1906 A, 297, figs. 1-14 (C. alleghaniensis)
Wiedersheim, R. 1877 B, *passim*, pl. ii, figs 23-25 (Cryptobranchus, Menopoma alleghaniensis).
 1877 C, 153, figs 3-5 ('menopoma')
Wilden, H. H. 1891 A, 654 (Menopoma alleg.)
 Recent; eastern United States Pleistocene (Cave deposit); West Virginia.
- Cryptobranchus sp. indet.**
Hay, O. P. 1923 A, 322, 353 Pleistocene; Pennsylvania, Virginia
Peterson, O. A. 1926 A, 251, text-fig. 1. Pleistocene; Pennsylvania

PLICAGNATHUS Cook. Type *P. matthewi* Cook.

- Cook, H. J. 1917 A, 213.
 Matthew, W. D. 1918 A, 188, 226.
 Zittel and Broili 1923 A, 206.

Plicagnathus matthewi Cook.

- Cook H. J. 1917 A, 213.
 Matthew, W. D. 1918 A, 188, 226.
 1924 C, 68.
 Upper Miocene (Lower Snake Creek); Nebraska.

SALAMANDROIDÆ, new form.

- Cope, E. D. 1889 D, 33 (Pseudosaura). | Stejneger, L. 1907 A, 11 (Salamandroideæ)

AMBYSTOMIDÆ Stejneger.

- Stejneger, L. 1907 A, 25
 Arldt T. 1907 D, 637 (Amblystomidæ).
 1916 A, 112 ("amblystomatinen")
 Boulenger, G. A. 1882 A, 31 (Amblystomatineæ).
 Cope E. D. 1859 A, 122 (Amblystomatineæ).
 1866 F, 105 (Amblystomidæ)
 1868 N, 166 (Amblystomatineæ)
 1885 DD, 311 (Amblystomidæ)
 1899 A, 33, 45 (Amblystomidæ)
 Cunningham and Boulenger 1912 A, 163, 168
 (Amblystomatineæ).
 Dunn E. R. 1922 A, 423, 426
 Fejérváry, G. J. 1920 A, 352 (Amblystomidæ)
 Gadow H. 1901 B, 109 (Amblystomatineæ).
 1905 A, 200 (Amblystomatineæ)
- Gill, T. 1885 B, 18 (Amblystomidæ)
 Hallowell E. 1858, Jour. Acad. Nat. Sci., Phila.
 (2) m (Amblystomidæ)
 Kingsbury, B. F. 1895 A, 124 (Amblystomidæ)
 Kingsbury and Reed 1909 A, 554 (Amblystomidæ)
 Klaauw, C. J. 1924 B, 576 (Amblystomidæ)
 Noble G. K. 1922 A, 62 ("amblystomids")
 1926 A, 1 (Amblystomidæ)
 Pa'ack J. 1899 B, 1, 1 (Amblystomatiden)
 Pompeck J. F. 1912 A, 340 (amblystomatinen)
 Reed H. D. 1920 A, 326, 367 (Amblystomidæ)
 Steiner H. 1921 A, 520 (Amblystomatineæ)
 Stejneger, L. 1907 C, 24
- AMBYSTOMA Tschudi. Type *Lacerta maculata* Shaw.
 Tschudi, J. J. 1838, mém. Soc. Nat. Neuchâtel, 92
 Adams, L. A. 1919 A, pl. v (Amblystoma)
 Albrecht P. 1883 C, 196 figs. 2, 3 ("siredon")
 Allis, E. P. 1909 A, 53 (Amblystoma)
 1915 A, 616 (Amblystoma)
 Altmann F. 1925 A, 89 (Amblystoma)
 Arldt T. 1916 A, 113 (Amblystoma)
 Baird, S. F. 1850 B, 281 (Amblystoma).
 Beyer, H. 1907 A, 268 (Siredon).
 Boulenger, G. A. 1882 A, 38 (Amblystoma)
 Carlin, W. E. 1881 A, 120 (Siredon, Amblystoma)
 Cope, E. D. 1859 A, 123 (Amblystoma).
 1868 N, 167 (Amblystoma).
 1875 D, 363 (Amblystoma).
 1885 DD, 311 (Amblystoma)
 1889 D, 47 (Amblystoma).
 Cunningham and Boulenger 1912 A, 180, 213
 (Amblystoma)
 Cuvier, G. 1825 A, v, 2, 415, pl. xxvii ("axolotl")
 Druner, L. 1904 B, 509, pl. xiv, fig. 2; pls. xv, xvi, xx, text-figs. A, G (Amblystoma)
 Dunn, E. R. 1922 A, 420
 1923 A, 133 ("amblystomid")
 Edgeworth, F. H. 1920 A, 123 (Siredon)
 1925 A, 227, 231, fig. 41 (Amblystoma, Siredon).
 Fejérváry, G. J. 1921 C, 3 (Amblystoma).
 Field, H. H. 1895 A, 341 (Amblystoma).
 Gadow, H. 1896 A, 10 (Siredon).
 1901 B, 109 (Amblystoma).
 1905 A, 200 (Amblystoma).
 Gaupp, E. 1898 B, 850 (Siredon).
 1899 A, 1041 (Siredon).
 1905 D, 947, fig. 14.
- Gaupp E. 1913 A, 44 figs. 15, 42 (Amblystoma)
 Gegenbaur, C. 1862 A, 180, 192 (Siredon)
 Gehl, C. G. 1855 A, 98 (Amblystoma).
 Goepfert E. 1896 B, 12, fig. 12 (Siredon)
 Goodrich, E. S. 1911 A, 103, figs. 29-51 (Amblystoma)
 Gray, J. E. 1850 A, 34
 Gregory, W. K. 1920 A, 117, fig. 22 (Amblystoma).
 Grisey, A. Mimer and Noble 1922 A, 283, figs. 2, 3.
 Grote, A. 1926 A, 458, figs. 1-6 (Siredon)
 Hanson F. B. 1919 B, 68, fig. 22.
 Hass, C. 1873 B, 611, pl. xix (Siredon)
 1873 D, 679 (Siredon)
 1892 C, 17 ("axolotl")
 Hasse and Schwarck 1870 A, 49 (Siredon).
 Hay O. P. 1889 B, 602 (Amblystoma).
 Heilprin A. 1887 A, 306 (Amblystoma).
 Heitwig, O. 1874 B, pls. i-v (Siredon).
 Higgins G. M. 1920 A, 293 (Amblystoma)
 Hoeven, J. v. d. 1866 A, 365 ("axolotl")
 Hoffmann, C. K. 1874 A (Amblystoma, Siredon).
 1878 B, 666, pls. viii, x (Amblystoma, Siredon).
 Huene, F. 1922 G, 455
 Hurley T. H. 1863 F, 429 (Siredon).
 1872 A, 156, 161, fig. 58 (Siredon)
 1874 B, 13 (Amblystoma).
 1875 A, 45 (Siredon).
 1875 C, 760 (Amblystoma).
 Iwanzoff, N. 1894 A, 582 (Siredon).
 Jaquet, M. 1897 A, 174 (Axolotl)
 1898 B, 321, figs. 60, 61 (Axolotl).
 1899 B, 189, pls. xli-xlv (Axolotl).
 Kehler, F. A. 1896 A, 352 (Amblystoma).
 Kerr, J. G. 1902 A, 425 (Amblystoma).
 Kesteven, H. L. 1919 A, 224 (Amblystoma)

- Kingsbury, B F 1895 A, 124, pls. 1, 2 (Amblystoma).
 1903 A, 326 (Amblystoma).
 Kingsbury and Reed 1908 A, 82, 83, figs. 1-7.
 1909 A, 554, 609 pls. 1-iv.
 Kingsley, J. S 1900 A, 210 (Amblystoma).
 1902 B, 329, 337 (Amblystoma).
 1912 B, 44, 48, 84, figs. 37, 43, 84.
 1925 A, 38, 125, 126, figs. 43, 132, 133 (Amblystoma).
 Kupffer, C 1893 A, 546 (Amblystoma).
 Lebedinsky, N. G 1917 A, 316 (Amblystoma).
 Leunis and Ludwig 1883 A (Amblystoma).
 Mallbranc M 1875 A (Siredon).
 Meyer, H 1860 E, 48 (Siredon).
 Miner, R W 1925 A 171, 174, 179 (Amblystoma).
 Mixart, St. G 1870 A, 264 (Amblystoma).
 1874 B, 182 fig 61 ("axolotl").
 Moodie, R L 1908 G, 519.
 Noble, G K 1921 A, 3.
 1925 C 1.
 1926 A, 1.
 Owen, R 1844 C, 23, fig (Axolotes).
 1845 B, 189, pl lxx, fig 4 (Axolotes).
 1866 A 87 (Axolotes).
 Parker, W K 1877 B, 529, pls. xxv-xxvii (Amblystoma).
 1882 D, 209 (Amblystoma).
 Parker and Brittan 1877 A, 122 (Amblystoma).
 Parker and Haswell 1897 A, 278, 289, 891, 896 (Amblystoma).
 Peter, K 1894 A, 587 (Siredon).
 Rahl, C 1901 A 513 ("axolotl").
 Reel, H D 1920 A 325 (Amblystoma).
 Retterer E 1908 A, 486 ("axolotl").
 1908 B, 337 ("axolotl").
 Reynolds, S H 1897 A, 135, 175 (Amblystoma).
 Rose, C 1894 C, 180 (Amblystoma).
 Schmalhausen, J. J. 1916 B, 139 (Siredon).
 1910 A, 439 (Amblystoma).
 Scott, P G. 1916 A, 309 (Amblystoma).
 Sewertzoff A N 1896 A, 245 (Siredon).
 1908 A, 171, 345 (Siredon), 359 (Amblystoma).
 Sirena, S 1872 A, 125, 134 (Siredon).
 Stadtmuller, F. 1926 A, 159, fig 5 (Amblystoma).
 Stannius H. 1856 A (Siredon).
 Steiner H 1921 A, 516, 520, figs 1, 8, 14.
 1922 A, 317, 331, 340 (Amblystoma).
 Stehr, P 1880 A, 487, 504 (Siredon).
 Sutton, J B 1884 A, 567 (Siredon).
 Taschenberg, O 1894 A, 3530 (Amblystoma).
 Terry, R J. 1906 A, 95 (Amblystoma).
 Versluis, J. 1912 C, 318, figs 7, 18.
 Wallace, A R. 1876 A, 2, 413 (Amblystoma).
 Wegner, R N 1922 A, 417 (Amblystoma).
 Wiedersheim, R 1877 A, pls (Amblystoma).
 1877 B, *passim*, pl. 1, fig 6; pl. iii, figs 28-34, 36, 44, pl v, fig. 73 ("axolotl"); pl v, figs 75-77 (Amblystoma).
 1879 A 216, pls. xi, xii (Amblystoma).
 1880 D 581, pl xxx ("axolotl").
 Wilder I W 1920 A, 349.
 Winslow G M 1898 A, 150, figs. 1-13 (Amblystoma).
 Windelbait P 1910 A, 178, 419 (Amblystoma).
 1910 B, 129 ("axolotl").
 Zwick, W. 1897 A, 66 (Siredon).
Ambystoma? sp. indet.
 Brown, B 1908 A, 206, pl xxv (Amblystoma?).
 Pleistocene, Arkansas

PLETHODONTIDÆ Grav.

- Gray, J E 1850 Cat Batr Grad Brit. Mus., 31.
 Boulenger, G A 1882 A, 51 (Plethodontæ).
 Cope E D 1889 D 33, 119, 523.
 Noble, G K. 1925 C, 3.
 Noble, G K 1927 A, 1 figs 1-10.
 Peterson, O A 1926 A, 251.
 Stejneger and Barbour 1923 A, 8.
 Peterson O A 1926 A, 251 Pleistocene; Pennsylvania.

UNDETERMINED GENUS AND SPECIES OF PLETHODONTIDÆ.

Desmognathus sp. indet.

- Peterson, O A 1926 A 252 (This genus?)
 Pleistocene, Pennsylvania

SALAMANDRIDÆ Bonaparte.

- Bonaparte, C. L. 1831 A, 68.
 Abcl, O. 1919 A, 330.
 1921 A, 252 ("salamandern").
 Albrecht, P. 1883 C, 196 fig 4 (Salamandra).
 Allis, E P 1919 E, 368 (Salamandra).
 Altmann, F 1925 A, 88, figs 1-5 (Salamandra).
 Anton, W. 1911 A, 179 ("salamandriden").
 Arldt, T 1916 A, 105 ("salamandriden")
 Beei G R 1926 A 308, figs 73-75 (Salamandra).
 Bischoff, T L W 1840 B, 114 ("salamandres").
 Blanville, H M D 1835 A, 281 ("salamandres")
 Bolk, L. 1913 A, 115, fig. 74 (Triton).
 Carus, V. 1875 A, 481 (Salamandrina).
 Cope, E D 1859 A, 122.
 1885 DD, 315.
 Cunningham and Boulenger 1912 A, 161, 168.
 Cuvier G 1805 A ("salamandres")
 1825 A, v, 2, 406, pl xxv ("salamandres").
 Dollo, L 1884 D, 91.
 Druner, L 1904 B, 362 (Salamandra).
 Dunn, E R 1922 A.
 1923 A, 132.
 Frassetto, F. 1915 A, figs. 7, 13 (Salamandra).
 Gadow, H 1896 A, 4, figs. 1-3, 9-13 (Salamandra, Triton).
 1901 B, 102.
 Gaupp, E 1899 A, 1042 (Ranodon).
 1900 A, 566 ("triton")
 1902 A 168, fig 3 (Triton).
 1905 D, 931, 936, figs. 9-13 ("salamandriden").
 Gegenbaur, C 1862 A, 180 (Salamandra).
 1867 B, 396 ("salamandriden").

- Geoffroy St Hilaire E F 1832 A, 351 ("salamandres")
- Gervais, P 1859 A, 498 ("salamandrides").
- Goepfert, E. 1896 B, 5, figs. 4-11 (Salamandra, Triton).
- Gray, J. E. 1825 A, 215
- Grote, A 1926 A, 484 (Salamandra).
- Hase, A. 1913 A, fig. 50.
- Hasse, C. 1873 B, 615 (Salamandrinae).
- 1892 A, 254 ("salamandrinen")
- 1892 C, 1 (Triton).
- Hasse and Schwarck 1870 A, 35, 50 ("salamandriden")
- Hat-cheek, B 1889 A, 84, fig 2 ("salamander")
- Heushaw, H W. 1912 A, 318 ("salamanders")
- Hertwig, O 1874 B, pls i-v ("salamandrinen")
- Hilzheimer, M 1913 A, 473 ("salamandriden").
- Hoeven, J. v. d. 1866 A, 364 (Salamandra).
- Hoffmann, C K. 1874 A (Salamandra).
- 1878 B, 666 (Salamandrida)
- Hofmann, K 1923 A, 432 (Salamandra)
- Hogg J 1839 A, 274.
- 1841 A, 361
- Howes, G B. 1893 B, 276 (Salamandra)
- Huxley, T. H 1859 D, 403 (Triton).
- 1863 C, 569 ("salamander").
- 1874 B, 14 ("salamanders")
- 1875 A, 45 (Triton)
- 1875 C, 760 (Salamandrida)
- 1879 A, pl iii (Salamandra).
- Iwanzoff, N. 1894 A, 582 (Salamandra)
- Jaekel, O 1909 D, 722 (Triton).
- Kapelka, W. 1900 A, pls. v, vi (Salamandra, Triton)
- Kehrer, F A 1896 A, 352 ("salamandriden").
- Kerbert, C. 1876 A, 215 (Triton)
- Kingbury and Reed 1908 A, 88
- Kingley J S 1901 B, 337 (Salamandrina)
- 1925 A, 246 (Salamandrina).
- Klaauw, C J. 1924 B, 576 (Salamander).
- Kluntz J H 1911 A, 165 (Salamandra)
- Kostlin, O. 1844 A ("Salamander").
- Kupffer, C 1893 A, 530 (Salamandra, Triton)
- Lavocat A 1885 A, 33 ("salamandres")
- Leunis and Ludwig 1883 A, 624 (Mecodontia)
- Leydig, F. 1890 A 465 (Salamandra)
- Lobley, J L 1908 A, 203, 209.
- Loomis, F. B. 1919 A, 217.
- Malbranc, M. 1875 A (Salamandrina).
- Meckel, J F 1825 A ("salamander").
- Meyer, H 1860 E, 47 ("salamandriden").
- Mivart, St G. 1870 A, 264, fig. 12
- Mivart and Clarke 1879 A, 524, text-fig 6 (Salamandra).
- Moller, S 1895 B, 2 (Salamandra).
- Nauck, E T. 1926 B, 38, 75, figs. 6, 7 (Triton)
- Noble, G K 1922 A, 62 ("salamandrids").
- Nopcsa, F 1923 B, 354 ("molche").
- Oken, L. 1823 B, 445 ("lurche").
- Owen, R. 1845 B, 193 ("newts")
- 1866 A.
- 1868 A, 907.
- Palacký, J 1899 B, 1 ("salamandriden")
- Paramore, R. H. 1910 A, 1395 ("salamander").
- Parker, W. K. 1882 C, 195, 197, pls xl, xli ("newts").
- Parker and Bettany 1877 A, 134 (Triton)
- Parker and Haswell 1897 A, 280, figs. 893, 896, 897.
- Perrin A 1899 A, 522, fig. 2 (Triton).
- Peter, K 1898 A ("salamandriden")
- Petronievics, B. 1921 A, 107, 109 ("salamandrides").
- Pompecky, J F. 1912 A, 340
- Rabl, C 1901 A, 500 (Triton)
- Reichert, K B 1849 A, 510 ("tritonen").
- Retterer, E 1908 A, 487 ("salamandre").
- 1908 B, 537 ("salamandre")
- Reynolds, S H 1897 A, 135, 175, 182 (Salamandrina)
- Rose C 1894 C, 180 (Triton)
- Schmalhausen, J J 1910 A, 431 (Salamandrella).
- 1916 B, 143 (Triton)
- 1917 B, 130 ("tritons").
- Sewertzoff, A N 1903 A, figs 16, 17 (Triton)
- 1926 D, 84 (Salamandrella)
- Seydel, O 1899 A (Salamandra)
- Sirena, S 1872 A, 126, 134 (Triton)
- Stadtmuller, F 1925 A, figs 1-41 (Salamandra).
- 1926 A, 157, figs. 3-5 (Salamandra)
- Stannius, H 1856 A, 4, seq. (Salamandra).
- Steiner, H 1921 A, 520.
- Stejneger, L 1907 C, 11.
- Stohr P 1880 A, pls xxix, xxx (Triton, Salamandra).
- Strasser, H 1879 A, 240 ("salamander").
- Tarapam, H 1909 A, 57 (Salamandra, Triton)
- Taschenberg, O 1894 A, 3543.
- Terra, P 1911 A, 224
- Tomes, C S 1875 A, 94 ("newt")
- Versluys, J 1912 C, 313, figs. 3, 5, 6, 9, 22 (Salamandra)
- Villiers, C G. S 1922 A, 191 ("salamandriden").
- Vitali, G. 1909 A, 208 (Triton)
- Wagner, R. 1843 A ("salamander").
- Wallace, A R. 1876 A, ii, 413
- Wiedersheim, R 1880 A, 26 ("salamandriden")
- 1892 A, 48 ("salamandrinen").
- Wintrebert, P. 1910 A, 300 ("salamander").
- 1910 B, 78, 173 ("salamandrides").
- Zittel and Broili 1911 A, 176 (Salamandrina).
- 1923 A, 206 (Salamandrina).
- Zwick, W. 1897 A, 69 (Triton, Salamandra).
- Ototriton* formerly assigned to this family is now referred to the reptilian family Amphibænae.

Order SALIENTIA Laurenti.

Unless otherwise indicated the authors quoted employ the name *Anura*.

- Laurenti, J. N. 1768, Syn. Rept., 24.
- Hay, O P. 1902 A, 424 (Salientia).
- Abel, O 1919 A, 311.
- 1920 A, 346.
- 1921 A, 144 ("anuren").

- Adams L. A. 1919 A, 145.
- Agassiz, L 1844 D, 137 ("batracians").
- Albrecht, P. 1883 C, 195 ("anoures").
- Allis, E P. 1923 A, 48.
- Anderson, R J 1912 D, 251.
- Anthony, R. 1913 A, 243 ("anoures").
- Anthony and Vallois 1914 A, 220 ("anoures").

- Aridt, T 1907 D, 638.
1912 A, 678.
1916 A, 114 ("anuren")
- Baraldi, G 1877 A, 8 ("anoures")
- Bardeleben, K 1889 A, 107 ("anuren")
1901 A ("anuren").
1904 A, 109 ("anuren")
- Baur, G 1885 L ("batrachians")
1897 D, 52 (Ecaudata).
- Beer, G R 1926 A, 310.
- Bender, O 1907 A, 40 ("anuren")
1910 A, 125 ("anuren").
- Beyer, H. 1907 A, 269 ("batrachier")
- Blainville, H M D 1835 A, 274 (Batrachia)
- Boas, J E V 1914 B, 554 ("anuren").
- Bonaparte, C L 1832 A, 318 (Anoura)
1833 B, 1186 (Caducibranchia).
- Boulenger, G A 1901 B, 402
1902 F, 383 (Ecaudata)
- Braus, H 1906 A ("anuren")
1909 A
- Bridge, T W. 1878 A, 725
- Broom, R 1899 A, 766
1909 B, 165
- Carter, J T 1905 A, 129, 140.
- Carus, V. 1875 A, 473.
- Cligny, A 1899 A, 133 ("Batraciens").
- Cope, E D 1865 B, 97-120
1865 C 97.
1885 BB, 65
1885 DD, 317.
- Covle, R F 1909 A, 582
- Cunningham, J T. 1897 A, 487 (Batrachia).
Cunningham and Boulenger 1912 A, 165, 169, 211.
- Dana, J D 1863 A 1 ("tailless batrachians").
- Delsman, H C 1924 A, 155
- Dollo, L 1884 D 86 (Anura).
1885 C, 303 ("anoures")
- Dombrowsky, B A. 1918 A, 197, 204
1925 A, 71, fig 2
- Duméril, A M C 1906 A, 92 (Ecaudati)
- Dunn, E R 1923 A, 130
- Ebner, V 1896 A, 146 ("batrachier").
- Edgeworth, F H 1920 A, 127
1925 A, 225
- Emer, G H. T. 1901 A 62, 242 ("anuren")
- Elliot, A I M 1907 A, 648.
- Emery, C 1890 A, 283 ("anuren").
1895 A, 218 ("anoures").
- Fejérvári, G J 1917 A, 1-38 ("anoures")
1921 C, 1-30.
- Frassetto, F. 1915 A ("anuri")
- Fuchs, H 1908 A, 354 ("anuren").
1909 B, 122, 148 ("anuren").
1909 D, 8, 76 ("anuren").
1911 A, 34 ("anuren")
1912 D, 153 ("anuren").
1922 A, 283.
1926 A, 119.
1926 B, 1-34.
- Furbringer, M. 1904 A, 594 ("anuren").
- Gadow, H 1901 A, 398.
1901 B, 18, 138 (Salientia).
1902 B, 346.
1905 A, 205.
- Gaupp, E 1895 A, 58, seq. ("anuri")
1898 B ("anuren").
- Gaupp, E 1899 A, 1004, 1047 ("anuren")
1900 A, 574 ("anuren").
1901 B, 950 ("anuren").
1902 A, 217 ("anuren").
1905 A, 286.
1905 D, 931, 969 ("anuren")
1906 A, 24 ("anuren").
1906 B, 718 ("anuren").
1910 C, 406
1911 A, 418, 422 ("anuren")
1911 B, 116 ("anuren").
1911 C, 441 ("anuren").
1913 A, 23 ("anuren").
- Gegenbaur, C 1867 B, 404.
1888 A, 394 ("anuren").
- Gelderen, C. 1922 A, 234.
1923 A, 15
1925 A, 502
- Gervais, P 1853 B, 54 ("anoures")
- Gill, T. 1897 A, 447 (Salientia)
- Goepfert, E 1896 B, 20 ("anuren")
1897 A, 248 ("anuren")
- Gray, J E 1825 A, 213 (Anoura).
- Gregory, W K 1917 B, 317.
1920 A, 224.
- Gregory and Adams 1915 A, 763.
- Gregory, Miner and Noble 1923 A, 285.
- Gunther, A 1858 A, 339, 342
- Haeckel, E 1868 A, 450
- Hac, A 1913 A, figs 39, 45
- Hasse, C 1873 B, 614 ("batrachier").
1892 A, 253 ("anuren")
- Hasse and Schwarck 1870 A, 48, 51 ("batrachier")
- Hulpin, A 1887 A, 307
- Henshaw, H. W. 1912 A, 318 ("frogs and toads").
- Hertwig, O 1874 B, 21 ("anuren").
- Huggins, G M 1920 A, 293
- Hilzheimer, M 1915 A, 475 ("anuren").
- Hoernes, R 1886 A, 577.
- Hoeven, J v d 1866 A, 364 (Anoura).
1891 A, 158, pl xiv, fig 3.
- Hoffmann, C. K. 1878 B, 612.
- Hombres, J H 1924 A, 37 ("anoures").
- Howes, G B. 1893 B, 270.
1902 A, 525
- Howes and Swinnerton 1901 A, 17.
- Huene, F. 1922 G, 454 ("anuren").
1926 A, 265 ("anuren")
- Huxley, T H. 1859 D, 412, 445.
- Ihmig, H 1880 A, 299 ("anuren").
- Iwanzoff, N. 1894 A, 579 ("anuren").
- Jacobshagen, E. 1920 A, 91 ("anuri")
- Jackel, O 1909 A, 194 ("anuren")
- Kapellun, W. 1900 A ("anuren").
- Kehrer, F. A. 1896 A, 353.
- Kingsley, J. S. 1900 A, 212.
1901 B, 337.
1925 A, 40, 130, 280.
- Klaauw, C. J. 1924 B, 579.
- Klein, E. F. 1868 A (Ecaudata).
- Kostlin, O. 1844 A ("ungeschwanzte").
- Koken, E. 1896 B, 143.
- Kothe, K. 1910 A, 29 ("anuren").
- Kravetz, L. P. 1906 A, 6.
- Laaser, P. 1903 A, 573 ("frosche").

- Lakjer, T. 1927 A, 202 ("anuren").
 Lataste, F. 1888 A, 236 ("anoures").
 Lavocat, A. 1885 A, 33 ("anoures").
 1889 A, 43 ("batraciens").
 Lebedinsky, N. G. 1917 A, 316 ("anuren").
 LeDamany, P. 1902 A, 334 ("anoures").
 1906 A, 58 ("anoures").
 1906 B, 158 ("anoures").
 Leums and Ludwig 1883 A, 607.
 Malbranc, M. 1875 A (Batrachia).
 Meckel, J. F. 1825 A ("ungeschwanzte").
 Metcalf, M. M. 1923 A, 388.
 Moodie, R. L. 1909 D 243 (Salienta).
 1909 F, 220 (Salienta).
 1911 H, 243 (Salienta).
 1912 B, 286 (Salienta).
 1914 B, 531 (Salienta).
 1915 F, 190 (Salienta).
 1915 H, 638 (Salienta).
 1916 A, 4, 72 (Salienta).
 Nicholls, G. E. 1915 A, 239.
 1916 E, 80.
 Noble, G. K. 1922 A, 1-78, pls. 1-xxiii.
 1925 A, 265.
 1925 B, 1.
 1925 C, 1, 7.
 1926 B, 1 ("frogs").
 1926 C, 1.
 Osborn, H. F. 1917 B, 178.
 Owen, R. 1848 B, 88 ("anourans").
 1866 A, 15 (Therionomorpha, Anura).
 1868 A, 911.
 Palacký, I. 1898 B, 374 ("batrachier").
 Parker, W. K. 1879 C, 332 (Batrachia).
 1880 B, 161 (Batrachia).
 1887 B, 53 ("anourans").
 Parker and Haswell 1897 A, 273.
 Pehrson, T. 1922 A.
 Perrin, A. 1896 A, 90 ("anoures").
 Petersen, H. 1922 A, 22, figs 1-6 ("anuren").
 Petromeneus, B. 1921 A, 107 ("anoures").
 Pfeiffer, H. 1854 A, 46 ("ungeschwanzte").
 Pompeckj, J. F. 1912 A 338, 343.
 Proctor, J. B. 1921 A, 197 (Ecaudata).
 Puccioni, N. 1908 A, 56 (Batraci).
 Rabl, C. 1903 A, 184 ("anuen").
 Reynolds, S. H. 1897 A, 532.
 Ridewood, W. G. 1897 A, 359.
 1897 C.
 1898 A, 474.
 Rose, C. 1892 G, 141 ("batrachier").
 Sabatier, A. 1902 A, 99 ("anoures").
 Sagemehl, M. 1883 A ("anuen").
 Schaumsland, H. 1906 A, 490 ("anuren").
 Schmalhausen, J. J. 1907 A, 178 ("anuren").
 1908 A, 337 ("anuren").
 1916 B, 138.
 1917 A, 103.
 Schone, G. 1902 A, 9 ("anuren").
 Schuchert, C. 1915 A, 800.
 Schwarz, H. 1908 B, 101 ("anuren").
 Seeley, H. G. 1872 B, 27 ("anurous amphibia").
 1888 I, 235.
 Sewertzoff, A. 1896 A, 207.
 1904 A, 484.
 1908 A, 359 ("anuren").
 1926 D, 75, fig. 4 ("anuren").
 Sollas, W. J. 1920 A, 525.
 Somes, F. 1907 A, 405 ("anuren").
 Spencer, W. B. 1886 A, 173.
 Steiner, H. 1921 A, 519 ("anuren").
 Stejneger, L. 1907 A, 47.
 Stejneger and Baibour 1917 A, 25 (Salientia).
 Steirling, S. 1908 A, 334.
 Stohr, P. 1881 A, 68 ("anuren").
 Strecker, C. 1887 A, 307 ("batrachier").
 Stromer, E. 1912 A, 57.
 Suchkm, P. P. 1910 A, 244.
 Taschenberg, O. 1894 A, 3547 (Ecaudati).
 Terra, P. 1911 A, 224.
 Tschudi, J. J. 1839 A, 25 (Batrachia).
 Van Gelderen, C. 1925 A, 505 ("anuren").
 Versluis, J. 1912 B, 566 ("anuren").
 1912 C, 314 ("anuren").
 Vialleton, L. 1917 A, 191 ("anoures").
 Villeis, C. G. S. 1922 A, 153-225 ("anuren").
 Virchow, H. 1914 C, 132 ("anuren").
 Wagner, R. 1843 A.
 Watson, D. M. S. 1914 D, 168 (Batrachia).
 1916 C, 632.
 1917 A, 979 ("frogs and toads").
 1917 B, 56.
 1919 B, 58 (Ecaudati).
 1919 C, 239.
 Wegner, R. N. 1922 A, 418 ("anuren").
 Wiederheim, R. 1892 A, 50 ("anuren").
 Wilkison, S. W. 1914 A, 3 ("frogs").
 1916 B, 211 (Batrachia).
 Winslow, G. M. 1899 A, 172.
 Wintrebeut, P. 1910 B, 172 ("anoures").
 Wortman, J. L. 1920 A, 42 ("anourous batrachia").
 Zittel and Broili 1911 A, 177.
 1923 A, 206.
 Zittel, Eastman, etc. 1902 A, 137.

Suborder BUFONIFORMES Cope.

- Cope, E. D. 1865 B, 97, 100, 104 (Bufoniformia).
 Abel, O. 1919 A, 322 (Arcifera).
 Arldt, T. 1916 A, 116, 143 ("arciferen").
 Braus, H. 1919 A, 7, 16, 44 (Arcifera).
 Cope, E. D. 1866 F, 67.
 1867 G, 189, 199.
 1875 X, 30 (Bufoniformia, Arcifera).
 1885 DD, 326 (Arcifera).
 1889 D, 246, 248, 253 (Arcifera).
 1891 N, 33 (Arcifera).
 Cunningham and Boulenger 1912 A, 166 (Arcifera).
 Duméril and Bignon 1841, Erpet. Gen., viii, 50, 303 ("bufoniformes").
 Fejérváry, G. J. 1921 C, 23 ("Arcifera"); 127 (Bufonomorpha).
 Gelderen, C. 1925 A, 501 (Arcifera).
 Lydekker, R. 1890 A, 124 (Arcifera).
 Noble, G. K. 1922 A, 12, 22, 41, table 2 (Procelia); 17 (Arcifera).
 Pompeckj, J. F. 1912 A, 338, 344 (Arcifera).
 Proctor, J. B. 1921 A, 197 (Arcifera).
 Villiers, C. G. S. 1922 A, 155, 163 (Arcifera).

PELIONTIDÆ Cope.

Cope, E. D. 1875 X, 11.

Hay, O. P. 1902 A, 410 (Prottritonidæ)

Gregory, W. K. 1917 B, 313 (Peleontidæ).

Moodie, R. 1916 A, 72.

PELION Wyman. Type *P. lyellii* Wyman.

Hay, O. P. 1902 A, 411.

Abel, O. 1919 A, 296.

Case, E. C. 1917 A, 135.

1919 B, 200.

Gaudry, A. 1875 A, 304 (Raniceps).

Gregory, W. K. 1917 B, 316.

Heilprin, A. 1887 A, 310.

Huxley, T. H. 1863 C, 571 (Raniceps).

Moodie, R. L. 1909 E, 40.

1916 A, 72.

Owen, R. 1860 E, 183 (Raniceps).

Pompeckj, J. F. 1912 A, 346.

Pelion lyellii Wyman.

Hay, O. P. 1902 A, 411.

Gaudry, A. 1875 A, 304 (Raniceps).

Gaudry, A. 1875 E, 443 (Raniceps).

Gregory, W. K. 1917 B, 316 (P. lyell).

Metcalf, M. M. 1923 A, 405.

Moodie, R. L. 1908 E, 561, fig. 1.

1908 F, 254 (P. lyell).

1909 B, 25.

1909 D, 240, pl. i (P. lyell).

1909 E, 40 (P. lyell)

1912 B, 286.

1914 A, 24 (P. lyell).

1914 B, 531 (P. lyell).

1916 A, 73, pl. xxiv, figs. 1, 17 (P. lyell).

Pompeckj, J. F. 1912 A, 346 (P. lyell).

Wyman, J. 1857 B, 172 ("batrachian reptile").

1857 C, 360 ("reptile").

Pennsylvanian (Linton); Ohio.

BUFONIDÆ Günther.

Günther, A. 1858, Cat. Batr. Sal. Brit. Mus., 54.

Arlt, T. 1907 D, 642.

1912 A, 689.

1916 A, 129, 143 ("bufoniden").

Carus, V. 1875 A, 478.

Cope, E. D. 1865 B, 102, 114.

1885 DD, 327.

Cunningham and Boulenger 1912 A, 166, 169.

Cuvier, G. 1805 A ("crapauds").

Dunn, E. R. 1923 A, 130.

Fejérváry, G. J. 1917 A, 11, 18 (Bufonidæ, Bufoninæ).

1921 A, 28 ("bufonides").

1921 C, 19, 22.

Gadow, H. 1901 B, 166.

1905 A, 205.

Gaupp, E. 1905 D, 991.

Hasse, C. 1892 A, 254 ("kroten").

Hoffmann, C. K. 1878 B, 607.

Kostlin, O. 1844 A ("kröten").

Leunis and Ludwig 1883 A, 616.

Lobley, J. L. 1908 A, 203.

Meckel, J. F. 1825 A ("kroten").

Metcalf, M. M. 1923 A, 401, fig. 12.

Moodie, R. L. 1912 B, 287.

Nicholls, G. E. 1916 A, 81.

Noble, G. K. 1922 A, 20, 22, 67.

1926 A, 12.

Owen, R. 1845 B, 194.

1866 A, 15.

Palacký, J. 1898 B, 376.

Proctor, J. B. 1921 A, 208, 214.

Ridewood, W. G. 1898 A, 475, 482.

Stannius, H. 1856 A (Bufonion).

Stemer, H. 1921 A, 528.

Stejneger, L. 1907 C, 55.

Wallace, A. R. 1876 A, ii, 415.

Zwick, W. 1897 A, 100.

BUFO laurenti. Type *Bufo vulgaris* Laurenti.

Laurenti, J. N. 1768, Syn. Rept., 25.

Abel, O. 1919 A, 315, fig. 238.

Adolphi, H. 1896 A, 115, pl. viii.

Anthony and Vallois 1914 A, 259.

Arlt, T. 1907 D, 642.

1916 A, 121.

Bardeleben, K. 1901 A, 51.

Blainville, H. M. D. 1835 A, 277.

Boas, J. E. V. 1914 C, 253, figs. 30, 31.

Blaus, H. 1909 A.

1919 A, 10, 25, fig. 1.

Bronn, H. G. 1849 A, 684.

Camp, C. L. 1917 A, 289.

Cope, E. D. 1885 DD, 321.

Cunningham and Boulenger 1912 A, 166.

Dunn, E. R. 1923 A, 131.

Eggert, B. 1927 A, 566.

Emmer, G. H. T. 1901 A, 256.

Field, H. H. 1895 A, 341.

Foote, J. S. 1916 A, 46, pl. iii.

Frassetto, F. 1915 A.

Gadow, H. 1896 A, 15.

Gadow, H. 1901 B, 169.

Gaupp, E. 1899 A, 1052.

Giebel, C. G. 1855 A, 98.

Goepfert, E. 1896 B, 25, fig. 19.

Gregory, W. K. 1920 A, 118, fig. 25.

Hanson, F. B. 1919 B, 68, fig. 21.

Hasse, C. 1892 A, 254.

Heilprin, A. 1887 A, 307, 312.

Hoffmann, C. K. 1874 A, 18, 28.

1878 B, 608, 643, pls. x-xii, xiv, xv.

Iwanzoff, N. 1894 A, 580.

Kingsley, J. S. 1925 A, 247, fig. 261.

Metcalf, M. M. 1923 A, 401, fig. 11.

Miller, N. 1909 A, 641.

Moodie, R. L. 1912 B, 287.

Nehring, A. 1880 A.

Nicholls, G. E. 1914 A, 420.

1916 A, 80.

Noble, G. K. 1922 A, 20, 25.

1925 A, 271.

Owen, R. 1848 B, 88.

1866 A, 177, 183.

- Owen, R. 1868 A, 868.
 Palacký, J. 1898 B, 374.
 Parker, W. K. 1877 B, 582.
 1880 B, 161.
 Parker and Bettany 1877 A, 177.
 Proctor, J. B. 1921 A, 208.
 Reynolds, S. H. 1897 A, 169, 182, 186.
 Ridewood, W. G. 1897 A.
 1897 C.
 Schmalhausen, J. J. 1908 A, 341, fig. 4.
 1917 A, 102.
 Stannius, H. 1856 A, 41, 42.
 Stejneger, L. 1907 C, 55.
 Stephan, P. 1900 A, 332.
 Strecker, C. 1887 A, 307.
 Taschenberg, O. 1894 A, 3548.
 Versluys, J. 1912 C, 315, fig. 19.
 Zwick, W. 1897 A, 100, fig. 19.
Bufo boreas halophilus Baird and Girard.
 Baird and Girard 1853, Proc. Acad. Nat. Sci. Phila., 101 (B. halophila), 378 (B. boreas).
 Boulenger, G. A. 1882 B, 295 (B. halophilus); 296 (B. boreas).

EOBATRACHUS Marsh.

- Hay, O. P. 1902 A, 425.
 Arldt, T. 1912 A, 668.
 1916 A, 114, 118, 120.
 Fejérváry, G. J. 1921 C, 29.
 Simpson, G. G. 1926 H, 204.
Eobatrachus agilis Marsh.
 Hay, O. P. 1902 A, 425.
 Arldt, T. 1916 A, 114.
 Fejérváry, G. J. 1917 A, 6.
 Lydekker, R. 1913 A, 19.

Suborder RANIFORMES Cope.

- Cope, E. D. 1865 B, 97, 104, 114 (Raniformia).
 Abel, O. 1919 A, 324 (Firmisternia).
 Arldt, T. 1916 A, 131, 143 ("firmisternier").
 Boulenger, G. A. 1882 B, 2 (Firmisternia).
 Braus, H. 1919 A, 7, 9, 44 (Firmisternia).
 Carus, V. 1875 A, 474 (Raniformia).
 Cope, E. D. 1866 F, 190.
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